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## PREFACE

***Energy Watch***, the California Energy Commission's summary of energy trends in California, provides a wide audience with information about California's energy picture. Information for this report is gathered under the authority of the Public Resources Code Sections 25320 and 25354.

***Energy Watch*** staff are grateful for the cooperation of the state's utilities and petroleum companies in preparing this report. Special thanks are extended to the State Board of Equalization, California State Controller's Office, the Department of Finance, the Department of Motor Vehicles, and the Department of Transportation.

Views and conclusions expressed in the document are those of the staff and do not necessarily represent the official views or policies of the California Energy Commission or the State of California.

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## California Energy Watch

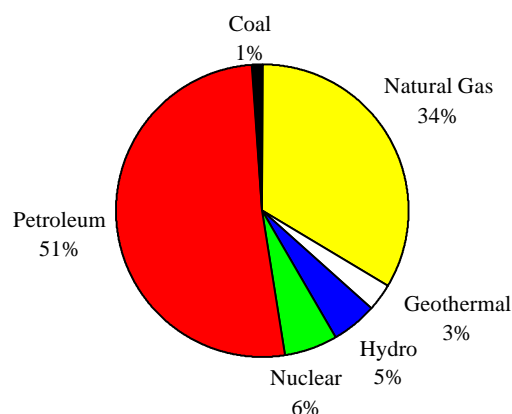
Energy fuels California's economy. Transportation, industry, residences and commerce use energy either directly as fuel or after the fuel has been converted to a more usable form -- electricity. Primary energy includes energy used directly and energy used to produce electricity. End use energy includes energy as used by the final consumer, including electricity.

California leads the nation in diversifying its energy sources, employing a wide range of fuels, fuel sources and technologies. California imports about 55 percent of its primary energy needs from other states and about 10 percent from foreign countries. If California were a separate nation, it would rank 11th in the world in terms of energy consumption. However, California uses energy efficiently; the state is fifth lowest of the fifty states in energy expenditures per person and second lowest in energy expenditures per unit of economic output.

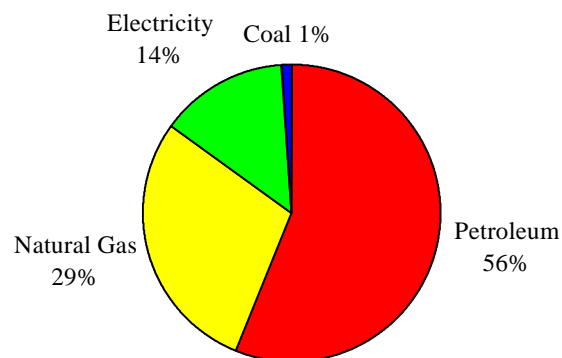
**Petroleum.** Petroleum provides over 50 percent of the energy Californians use today. Virtually all petroleum products consumed in the state are produced in the state's refineries. Crude oil entering these refineries comes from in-state (50 percent), Alaska (45 percent) and foreign (5 percent) production. In-state crude oil production includes onshore sources (82 percent), federal offshore sources (12 percent), and state waters (6 percent). Over the long term, in-state and Alaskan oil supplies will decline and foreign imports will increase.

Clean-air regulations are requiring refiners to change their product specifications. The California Air Resources Board (CARB) required diesel fuel to be reformulated beginning October 1993 to reduce sulfur content and various constituents leading to ozone formation. Federal requirements to reformulate gasoline became effective January 1,

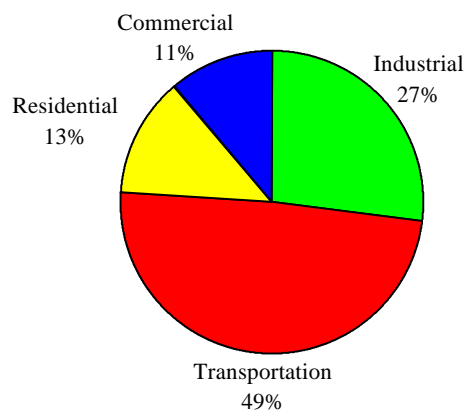
**Primary Energy**



**End Use Energy**



**End Use by Sector**



1995. As of March 1996, further reformulation was required statewide under CARB regulations designed to reduce tailpipe emissions 30 percent compared to conventional gasoline. California oil refiners have invested about \$4.5 billion to meet reformulated gasoline requirements thus far.

Almost 80 percent of petroleum is consumed in the transportation sector. Only a small part of that sector uses nonpetroleum fuels today. California is making progress in diversifying its transportation fuels. As of late 1996, California had approximately 15,000 flexible fuel vehicles on the road, which can operate on M-85 fuel (85% methanol/15% gasoline), gasoline or any mixture of the two fuels. When operating on M-85 fuel, tests show these vehicles emit slightly less smog forming emissions and significantly less toxic air emissions than when operating on California reformulated gasoline. Natural gas vehicles, which numbered about 6,000 in late 1996, also produce fewer emissions than vehicles operated with reformulated gasoline.

Automobile manufacturers and oil companies have actively participated in the demonstration of these alternative fuels for several years. Development of electric vehicles is also being pursued by many parties, in a variety of on-road and off-road applications. Alternative-fueled vehicles will help California comply with tough air quality regulations aimed at the transportation sector.

**Natural Gas.** North America and the United States enjoy plentiful natural gas supplies today and for the foreseeable future. California imports most of its natural gas from the Southwest (58 percent), Canada (16 percent), and the Rocky Mountain area (9 percent). The remaining 17 percent is produced in-state. Even with adequate overall natural gas supplies in the country as a whole, some California gas users were curtailed at times in the late 1980s because the pipeline and storage system was inadequate to meet all needs during extreme peak-demand periods. Pipeline capacity is now plentiful, as new facilities link California to major out-of-state gas producing areas.

Natural gas provides 29 percent of California's end use energy. It is the principal fuel used by the residential and industrial sectors. Natural gas demand is expected to grow at about one percent per year in the residential, commercial and industrial sectors, which is slower than the pace of economic and population growth. This is possible because new buildings and gas appliances are more energy efficient than older ones due to energy efficiency standards and other efficiency improvements.

Many in-state electricity generation facilities use natural gas as a primary or exclusive fuel. The use of natural gas for electricity generation is expected to increase as new electricity suppliers build natural gas-fired power plants to be competitive in meeting California's future electricity demand.

As a result of federal and state initiatives beginning in the early 1980s, the natural gas industry has transitioned from heavily regulated to highly competitive. More service options are available and remaining regulations are sensitive to market conditions. The California

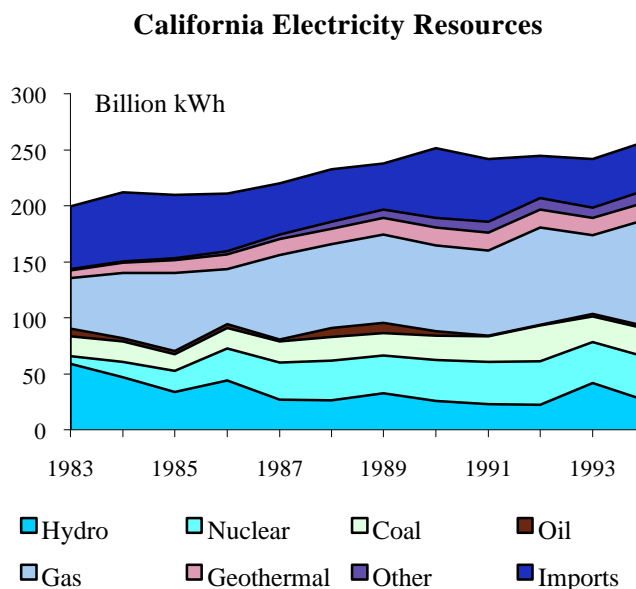
Public Utilities Commission is continuing to modify gas utility rates to provide utilities with greater incentives to control costs and thus keep down rates.

**Coal.** Direct consumption of coal in California is relatively minor. While there are some small coal-fired power plants located in-state, there are a number of coal-fired plants located out-of-state that provide electricity to California consumers. Coal-fired electricity generation has been competitive when located near coal supplies. Currently the state's utilities own some out-of-state coal facilities and they also purchase significant quantities of surplus coal-generated electricity from other utilities. In the future, California utilities and distribution companies will continue to purchase competitively-priced surplus coal-generated electricity from existing plants.

**Electricity.** Electricity is an essential energy form for many end uses and an attractive option for many others. Electricity provides lighting, heating, cooling and power for motors. Although its use in the transportation sector is largely limited to electric trains and buses, efforts are well underway to develop economic transportation applications to compete with gasoline automobiles.

California's technology and fuel mix for electricity generation is among the most diverse and balanced in the world, using virtually every commercial technology and fuel, and employing facilities from the very largest to the very smallest.

In 1994, electrical energy<sup>1</sup> was supplied mainly by gas-fired power plants, comprising 36 percent of the state's electricity production. The hydroelectric contribution was a low 10 percent due to relative drought conditions. This affected availability of imported electricity as well, as many of California's key trading partners in other states depend largely on hydroelectric resources; imported electricity was a lower-than-normal 16 percent of total. Nuclear and coal-fired resources contributed 15 percent and 9 percent, respectively, to the mix. Finally, not including hydroelectric, renewable resources (geothermal, organic waste, wind and solar) produced 10 percent of the state's electricity.



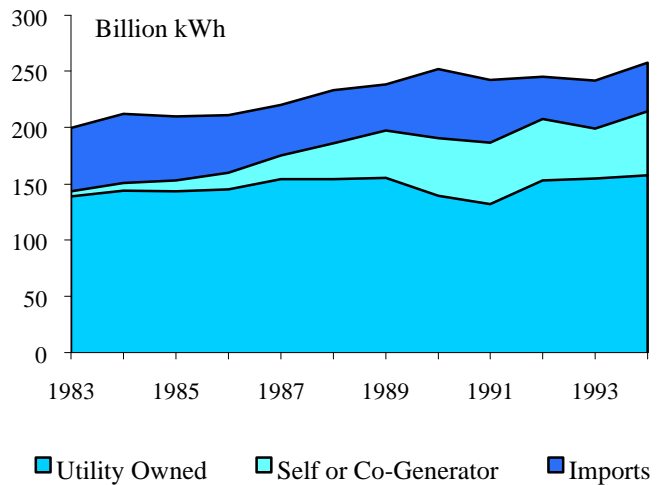
<sup>1</sup> Generation (as opposed to installed capacity or capability) varies significantly from year to year due to varying prices and availability of different fuels and resources.

A notable trend over the last 20 years has been the emergence of nonutility generation of electricity. With the exception of hydroelectric and geothermal facilities, virtually all renewables are independently owned, as are most gas-fired cogeneration units.

Demand for electricity is expected to grow at slightly less than two percent per year. Electricity demand growth is induced by population and economic growth, but is partially offset by increases in energy efficiency brought about by building and appliance standards, public agency programs and utility sponsored energy conservation programs.

The greatest share of California's increasing demand for electricity will come from the commercial sector. This sector is expected to account for almost 50 percent of overall growth due in part to increasing use of office equipment such as computers and to the increasing importance of this sector in the California economy.

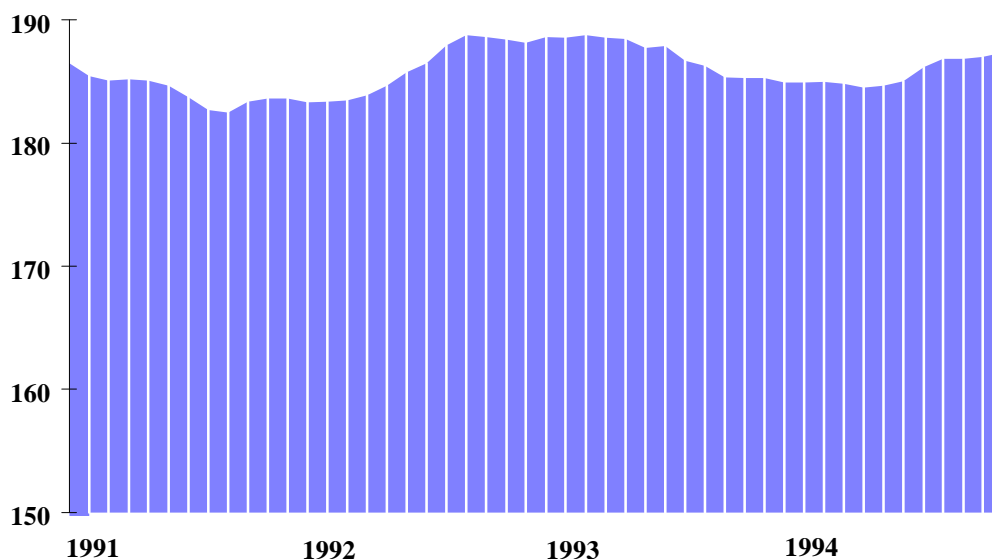
**Historical Electricity Generation**





# ELECTRICITY

## STATEWIDE ELECTRICITY SALES 12-Month Ended through December 1994 (billion kilowatt-hours)

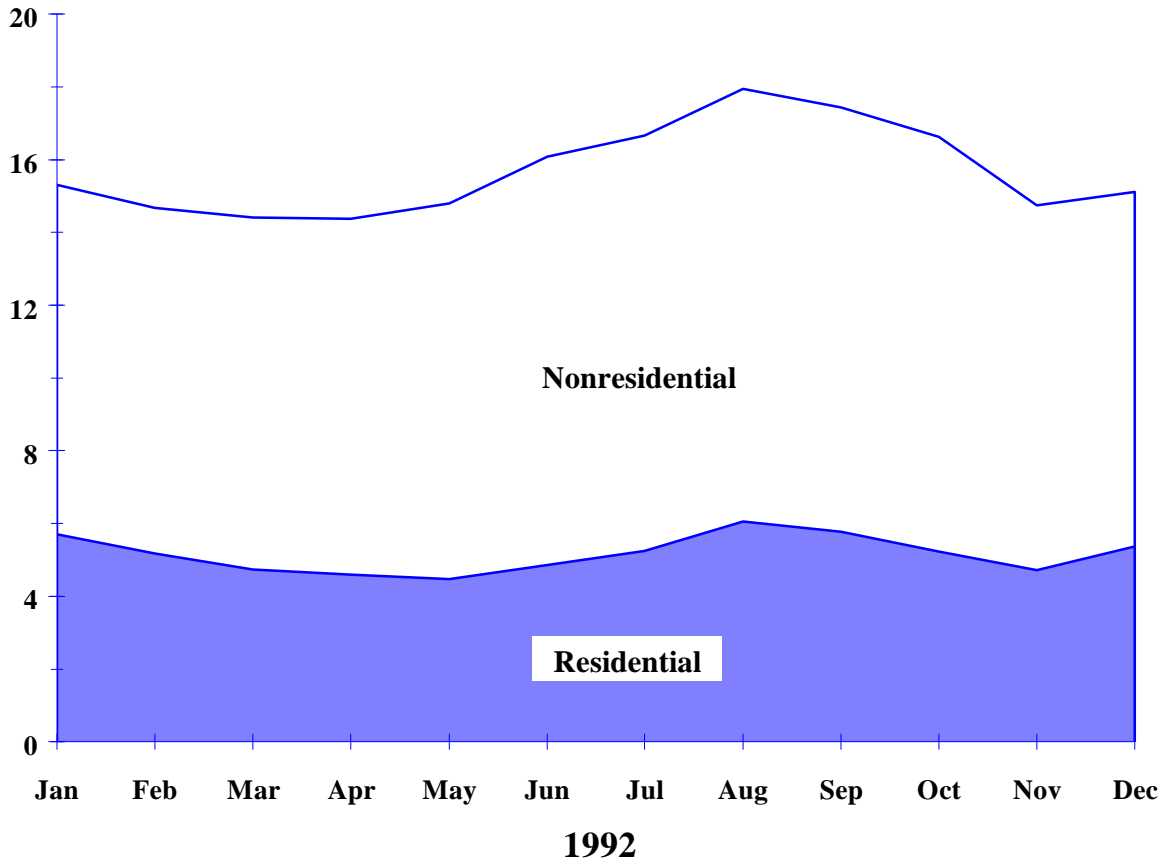


	1991	1992	1993	1994
January	185.5	183.3	188.6	184.9
February	185.5	183.4	188.6	184.9
March	185.1	183.5	188.8	185.0
April	185.1	183.9	188.6	184.8
May	185.1	184.7	188.4	184.5
June	184.6	185.8	187.7	184.6
July	183.7	186.5	187.9	185.0
August	182.7	187.9	186.7	186.2
September	182.5	188.8	186.3	186.8
October	183.4	188.6	185.3	186.9
November	183.6	188.4	185.3	187.0
December	183.6	188.2	185.3	187.4

SOURCES: Monthly electric statistics are provided by California's five major electric utilities: Pacific Gas and Electric Company, Sacramento Municipal Utility District, Los Angeles Department of Water and Power, Southern California Edison, and San Diego Gas and Electric Company.

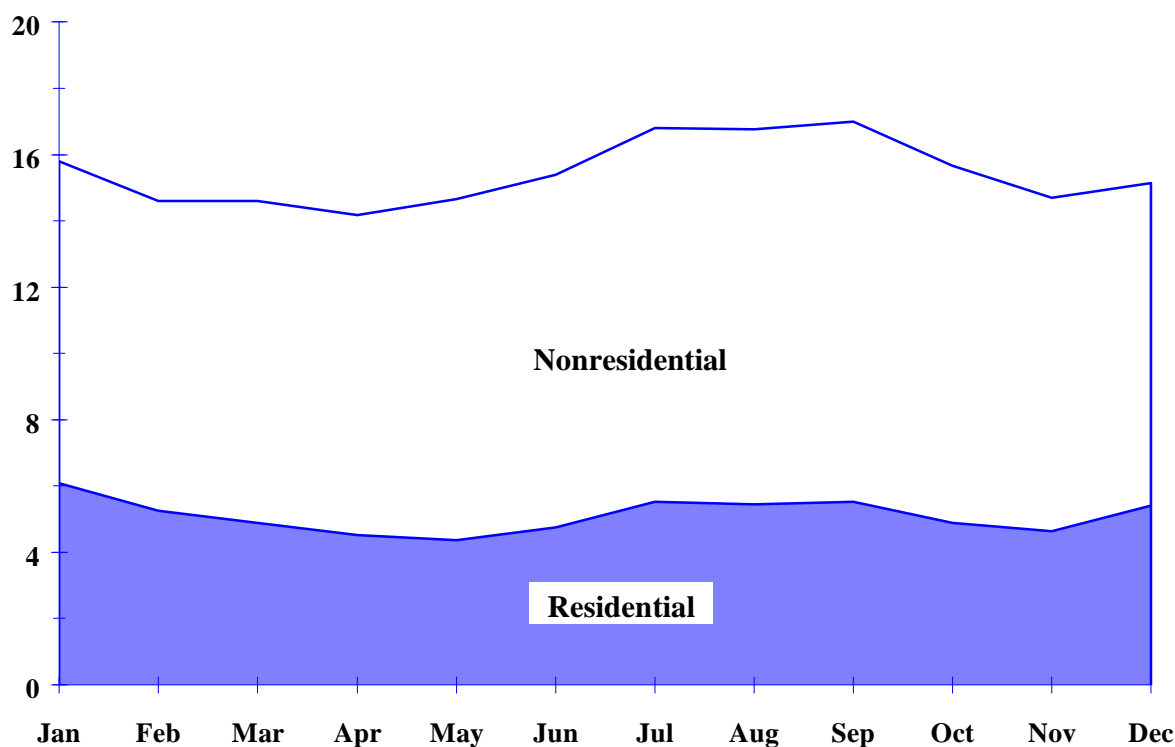
NOTE: 12-month ended data is derived by adding the sales for the indicated month and previous 11 months. *Energy Watch* uses 12-month ended data to minimize short-term seasonal fluctuations that can disguise longer-term trends.

# MONTHLY STATEWIDE RESIDENTIAL AND NONRESIDENTIAL ELECTRICITY SALES (billion kilowatt-hours)



	Residential	Nonresidential	Total Sales
January	5.7	9.6	15.3
February	5.2	9.5	14.7
March	4.7	9.7	14.4
April	4.6	9.8	14.4
May	4.5	10.3	14.8
June	4.9	11.2	16.1
July	5.3	11.4	16.7
August	6.1	11.9	17.9
September	5.8	11.6	17.4
October	5.2	11.4	16.6
November	4.7	10.0	14.7
December	5.4	9.8	15.1

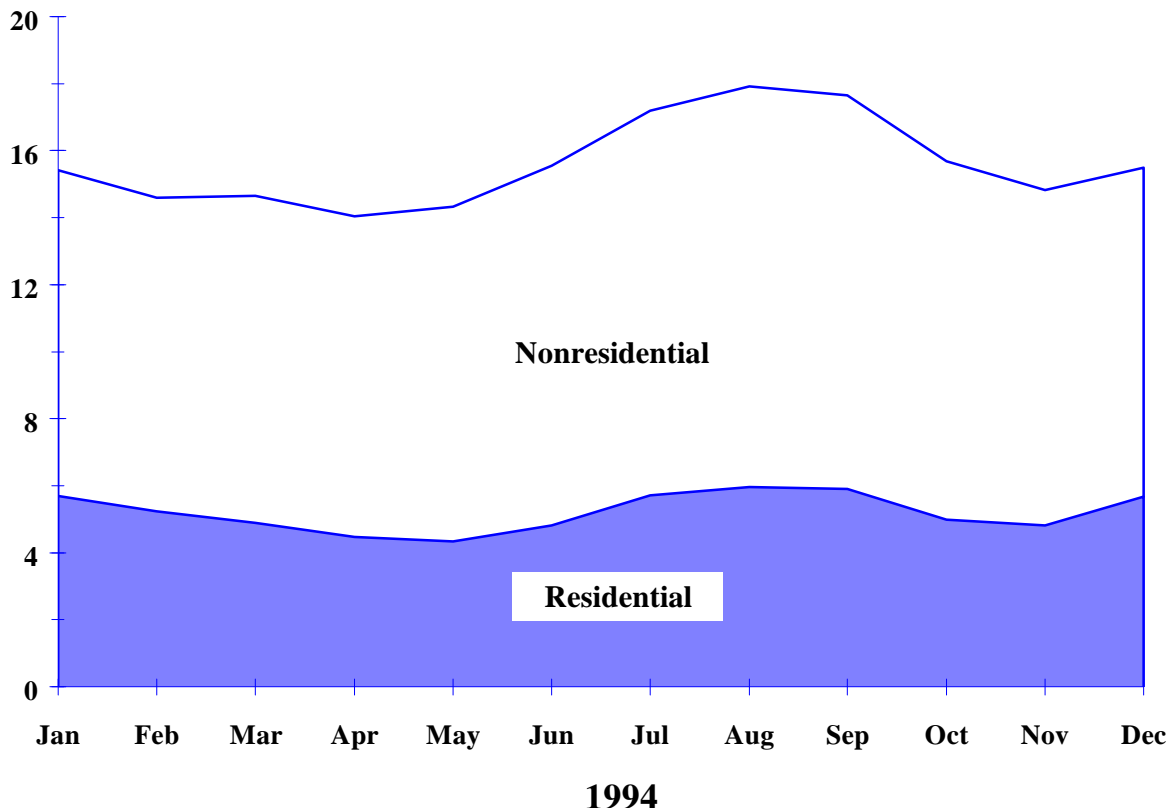
# MONTHLY STATEWIDE RESIDENTIAL AND NONRESIDENTIAL ELECTRICITY SALES (billion kilowatt-hours)



1993

	Residential	Nonresidential	Total Sales
January	6.1	9.7	15.8
February	5.3	9.3	14.6
March	4.9	9.7	14.6
April	4.5	9.7	14.2
May	4.4	10.3	14.7
June	4.8	10.6	15.4
July	5.5	11.3	16.8
August	5.4	11.3	16.8
September	5.5	11.5	17.0
October	4.9	10.8	15.7
November	4.6	10.1	14.7
December	5.4	9.7	15.1

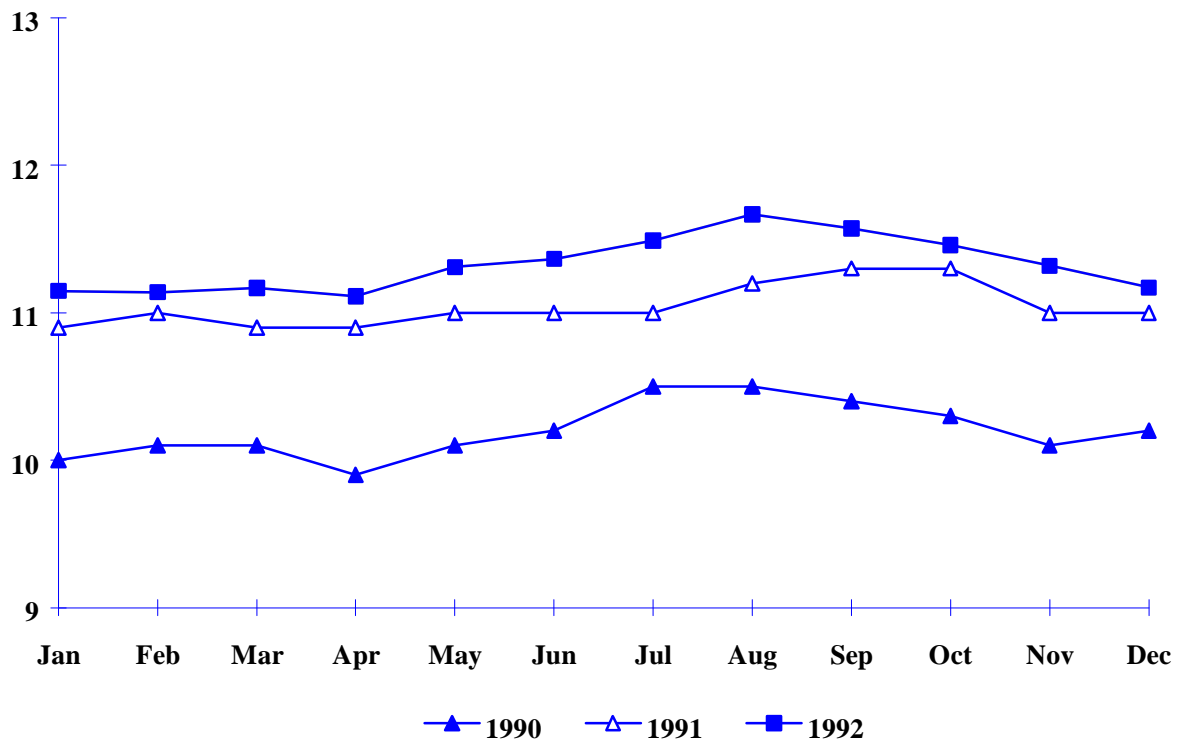
# MONTHLY STATEWIDE RESIDENTIAL AND NONRESIDENTIAL ELECTRICITY SALES (billion kilowatt-hours)



	Residential	Nonresidential	Total Sales
January	5.7	9.7	15.4
February	5.2	9.4	14.6
March	4.9	9.8	14.7
April	4.5	9.6	14.0
May	4.3	10.0	14.3
June	4.8	10.7	15.6
July	5.7	11.5	17.2
August	6.0	12.0	17.9
September	5.9	11.7	17.7
October	5.0	10.7	15.7
November	4.8	10.0	14.8
December	5.7	9.8	15.5

# STATEWIDE AVERAGE RESIDENTIAL ELECTRICITY RATES

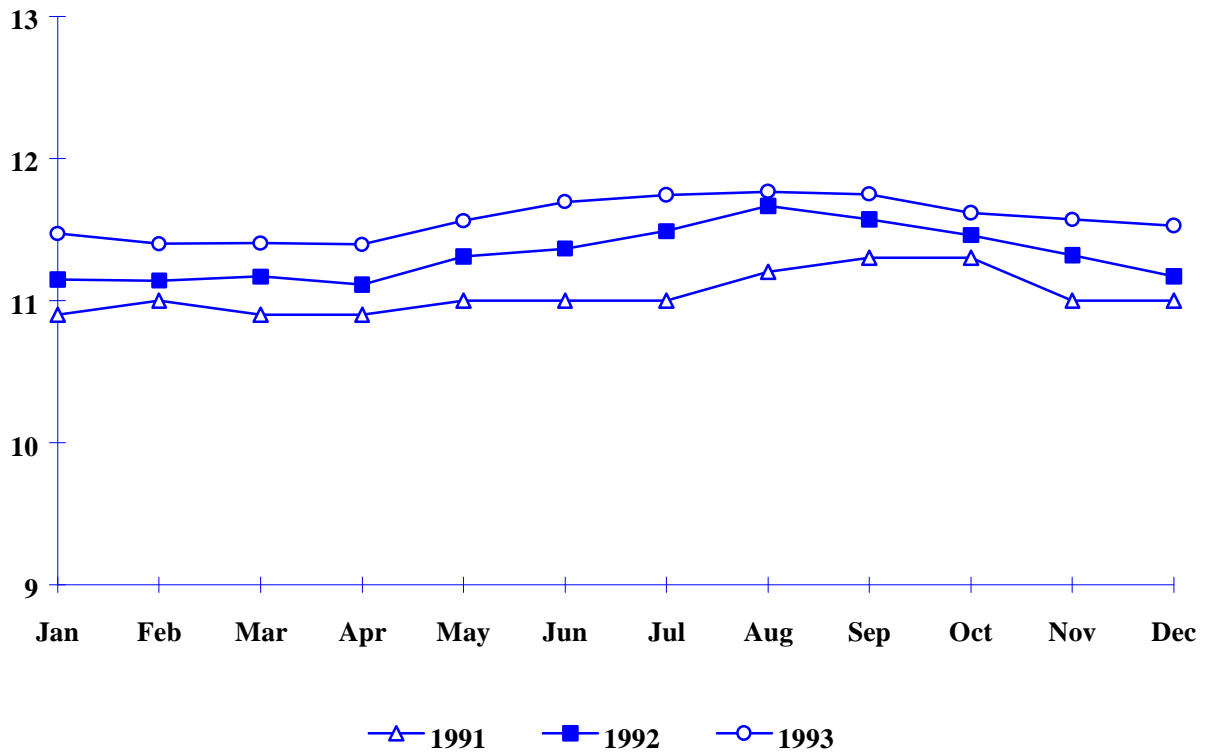
January 1990 through December 1992  
(cents per kilowatt-hour)



Year 1992	PG&E	SMUD	SCE	LADWP	SDG&E	Statewide
January	11.7	7.6	11.9	9.0	10.9	11.1
February	11.7	7.4	12.0	8.9	11.0	11.1
March	11.6	7.2	12.0	9.2	10.9	11.2
April	11.5	7.1	11.9	9.3	10.9	11.1
May	11.7	8.0	12.0	9.2	10.7	11.3
June	11.9	9.0	11.9	9.2	10.5	11.4
July	12.0	8.9	12.1	9.3	10.6	11.5
August	12.1	9.3	12.5	9.2	10.8	11.7
September	12.0	9.1	12.4	9.3	10.8	11.6
October	11.9	8.7	12.2	9.2	10.8	11.5
November	11.7	8.1	12.1	9.4	10.6	11.3
December	11.7	7.3	12.2	9.3	9.7	11.2
Monthly Average	11.8	8.2	12.1	9.2	10.7	11.3

# STATEWIDE AVERAGE RESIDENTIAL ELECTRICITY RATES

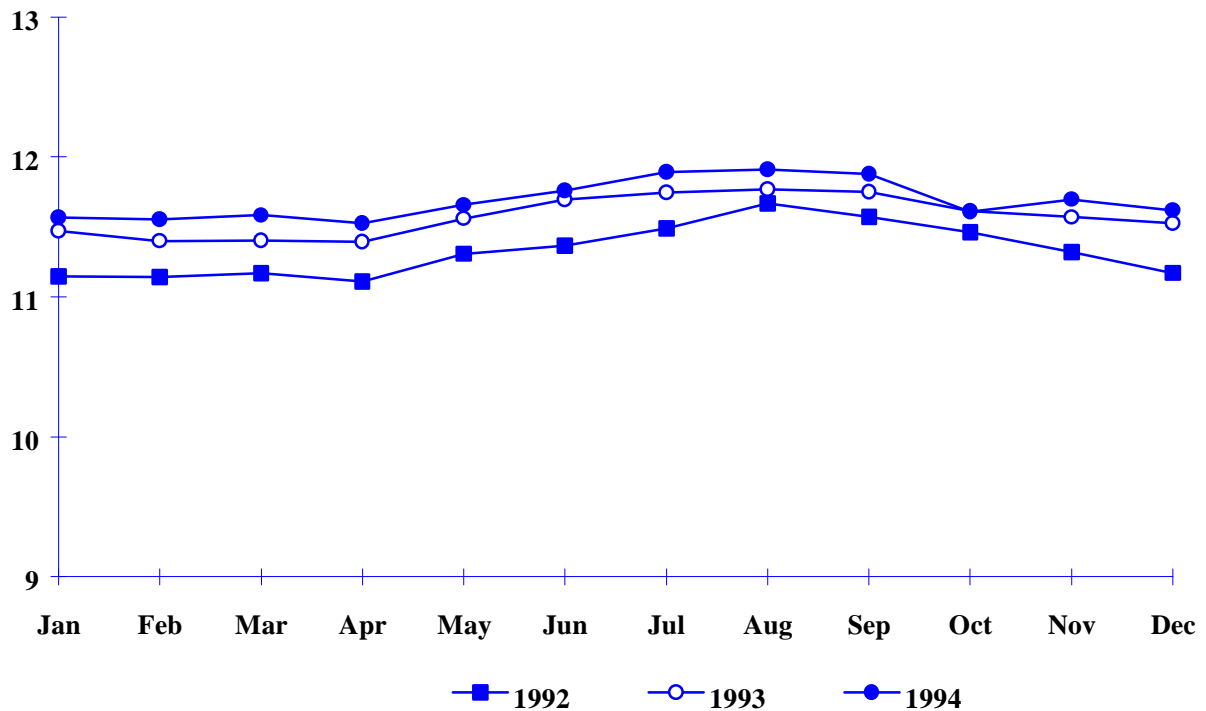
January 1991 through December 1993  
(cents per kilowatt-hour)



Year 1993	PG&E	SMUD	SCE	LADWP	SDG&E	Statewide
January	12.0	7.7	12.3	9.4	10.8	11.5
February	12.1	7.4	12.1	9.3	10.8	11.4
March	12.1	7.2	12.1	9.4	10.7	11.4
April	12.0	7.1	12.0	9.8	10.6	11.4
May	12.2	7.9	12.0	10.2	10.7	11.6
June	12.4	8.6	12.0	10.4	10.7	11.7
July	12.5	9.2	12.1	9.7	10.8	11.7
August	12.5	9.0	12.1	10.2	10.9	11.8
September	12.4	9.0	12.1	10.0	11.0	11.7
October	12.3	8.6	12.0	9.8	10.9	11.6
November	12.2	8.0	12.0	10.1	10.8	11.6
December	12.2	7.5	12.1	9.9	10.9	11.5
Monthly Average	12.2	8.1	12.1	9.8	10.8	11.6

# STATEWIDE AVERAGE RESIDENTIAL ELECTRICITY RATES

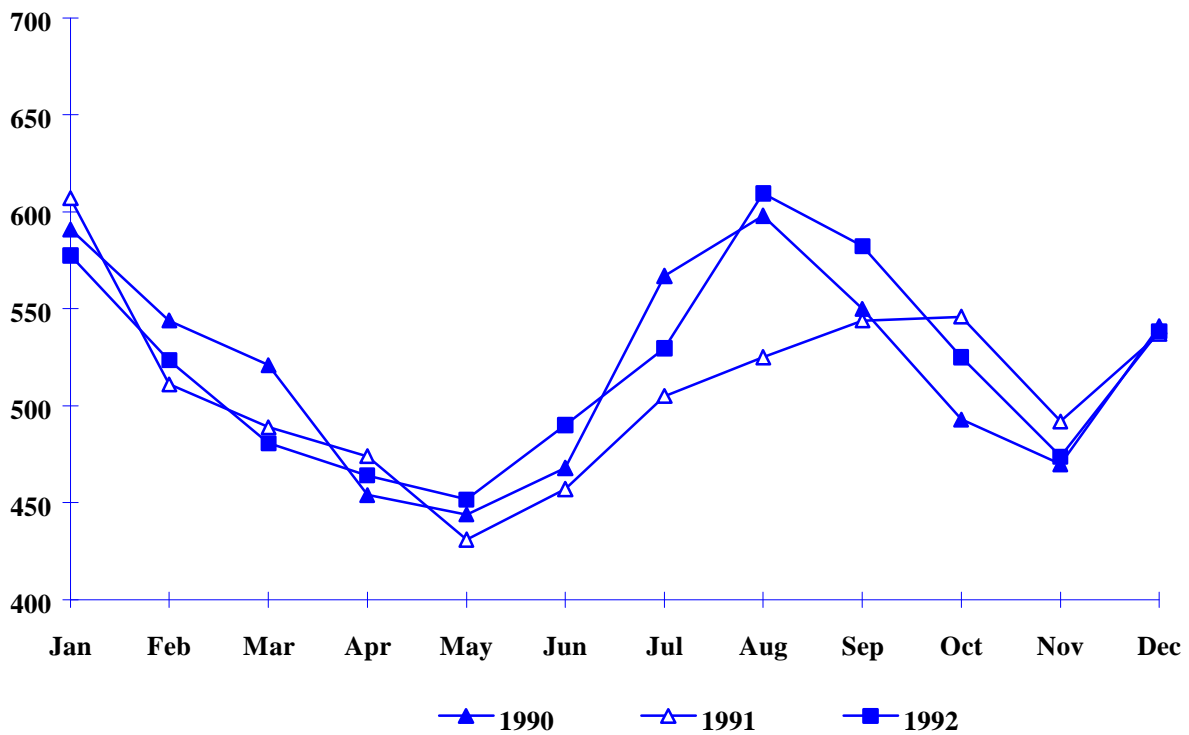
January 1992 through December 1994  
(cents per kilowatt-hour)



Year 1994	PG&E	SMUD	SCE	LADWP	SDG&E	Statewide
January	12.2	7.7	12.2	10.2	10.9	11.6
February	12.1	7.4	12.3	10.0	10.9	11.6
March	12.1	7.2	12.3	10.3	10.8	11.6
April	12.0	7.1	12.3	10.1	10.7	11.5
May	12.2	7.8	12.3	10.1	10.9	11.7
June	12.3	8.7	12.2	9.9	11.1	11.8
July	12.5	9.1	12.4	10.0	11.2	11.9
August	12.5	9.0	12.5	9.7	11.3	11.9
September	12.4	8.9	12.4	9.9	11.3	11.9
October	12.1	8.6	12.3	9.7	11.1	11.6
November	12.2	8.2	12.3	9.9	11.1	11.7
December	12.1	7.6	12.4	9.8	11.1	11.6
Monthly Average	12.2	8.1	12.3	10.0	11.0	11.7

# STATEWIDE AVERAGE RESIDENTIAL ELECTRICITY CONSUMPTION

January 1990 through December 1992  
(kilowatt-hours)

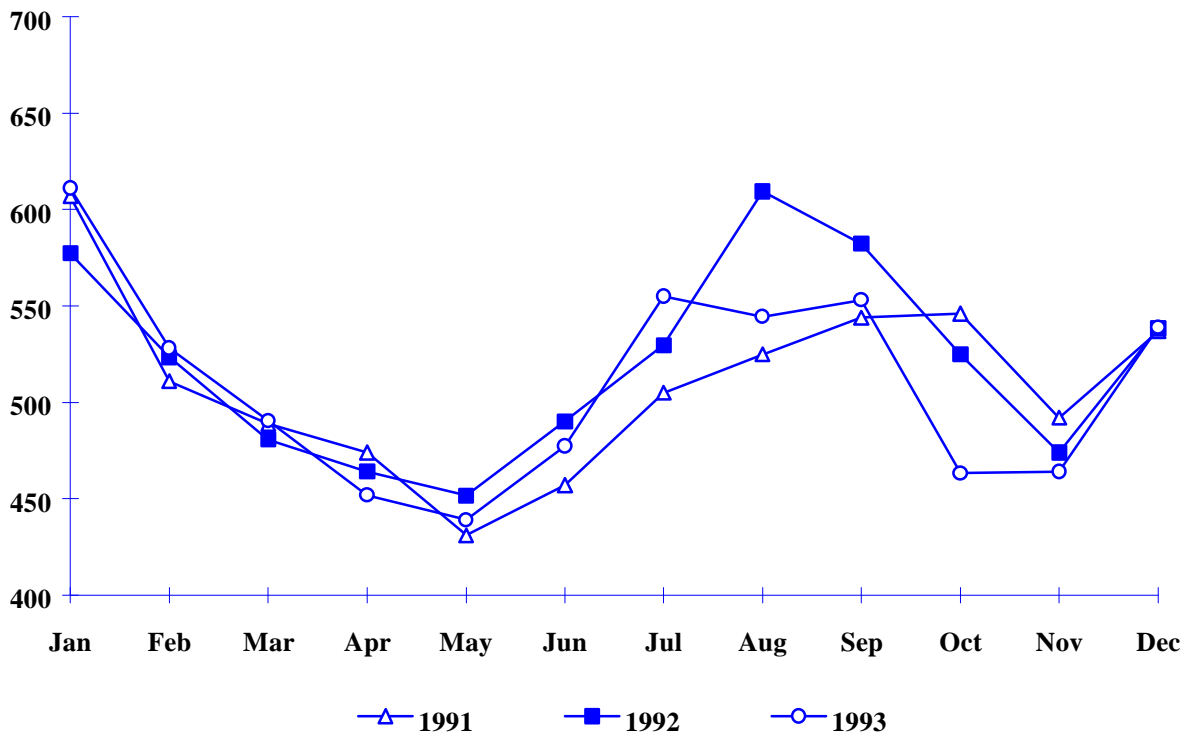


Year 1992	PG&E	SMUD	SCE	LADWP	SDG&E	Statewide
January	605	914	556	468	538	577
February	548	809	499	463	472	523
March	506	645	471	403	443	481
April	487	572	443	458	416	464
May	488	606	456	300	415	452
June	522	707	483	388	428	490
July	537	739	552	412	471	530
August	601	849	652	510	504	610
September	544	788	630	525	530	582
October	487	628	574	508	465	525
November	485	573	478	428	430	474
December	571	807	515	435	510	538
Monthly Average	532	720	526	442	469	521



# STATEWIDE AVERAGE RESIDENTIAL ELECTRICITY CONSUMPTION

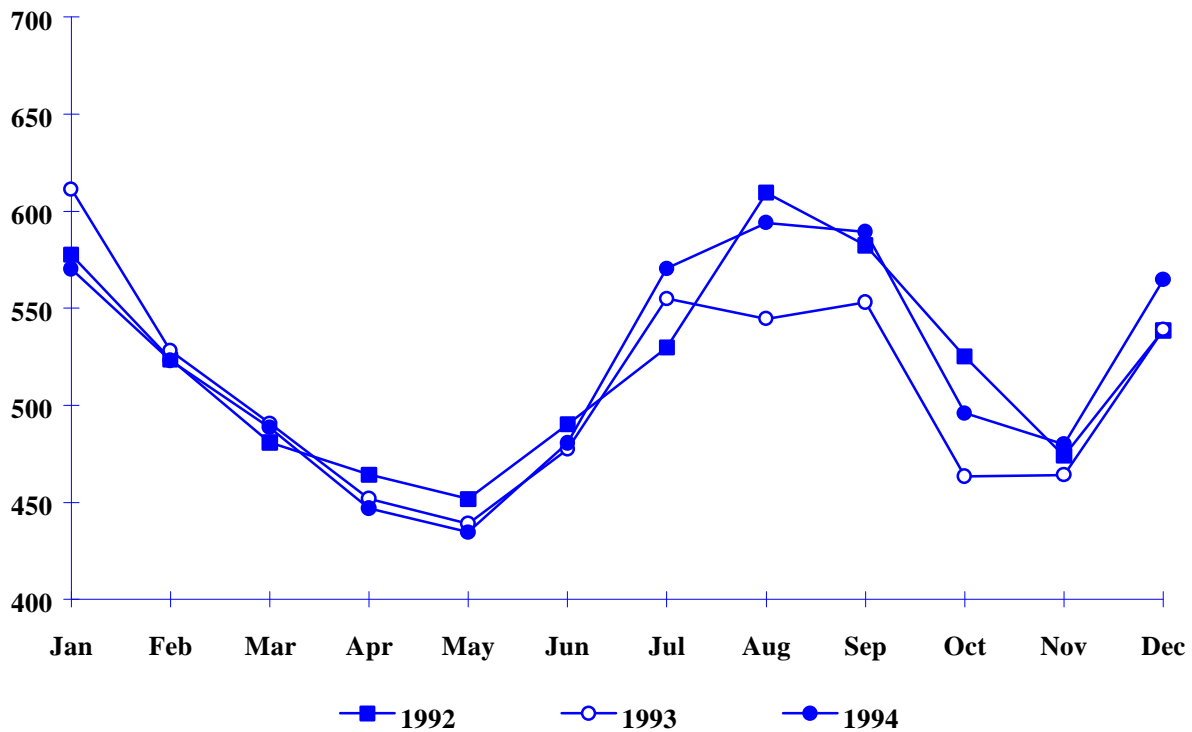
January 1991 through December 1993  
(kilowatt-hours)



Year 1993	PG&E	SMUD	SCE	LADWP	SDG&E	Statewide
January	636	967	598	479	573	611
February	554	780	498	488	482	528
March	528	674	468	406	453	490
April	485	579	433	389	412	452
May	467	565	434	351	401	439
June	497	610	487	385	423	477
July	581	854	560	422	471	555
August	572	791	544	457	443	544
September	553	772	584	438	483	553
October	421	615	506	449	444	463
November	491	579	451	400	436	464
December	584	825	508	419	501	539
Monthly Average	529	718	506	424	460	510

# STATEWIDE AVERAGE RESIDENTIAL ELECTRICITY CONSUMPTION

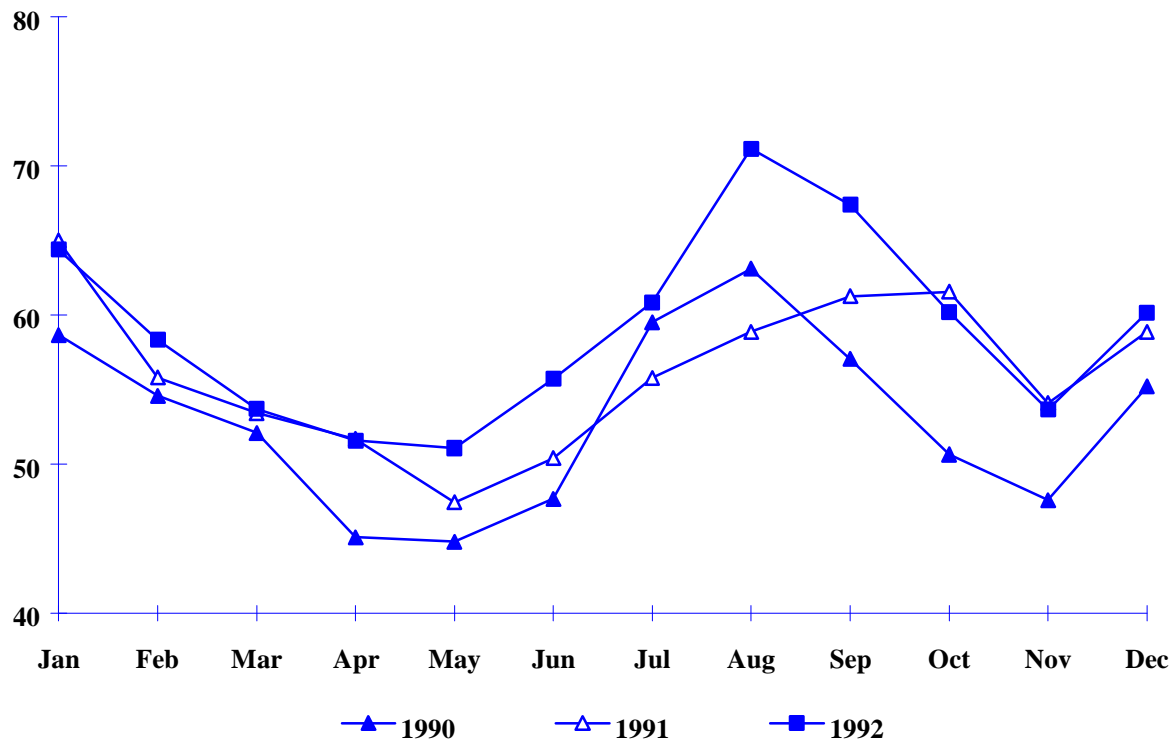
January 1992 through December 1994  
(kilowatt-hours)



Year 1994	PG&E	SMUD	SCE	LADWP	SDG&E	Statewide
January	603	944	551	449	503	570
February	560	791	487	455	485	523
March	515	685	474	394	471	488
April	468	581	436	381	425	447
May	457	555	432	345	413	435
June	500	655	488	384	417	480
July	572	825	606	428	490	570
August	591	814	631	503	482	594
September	549	768	650	498	548	589
October	487	638	508	473	451	496
November	506	621	470	395	452	480
December	613	875	526	446	528	565
Monthly Average	535	730	522	429	472	520

# STATEWIDE AVERAGE RESIDENTIAL ELECTRICITY BILL

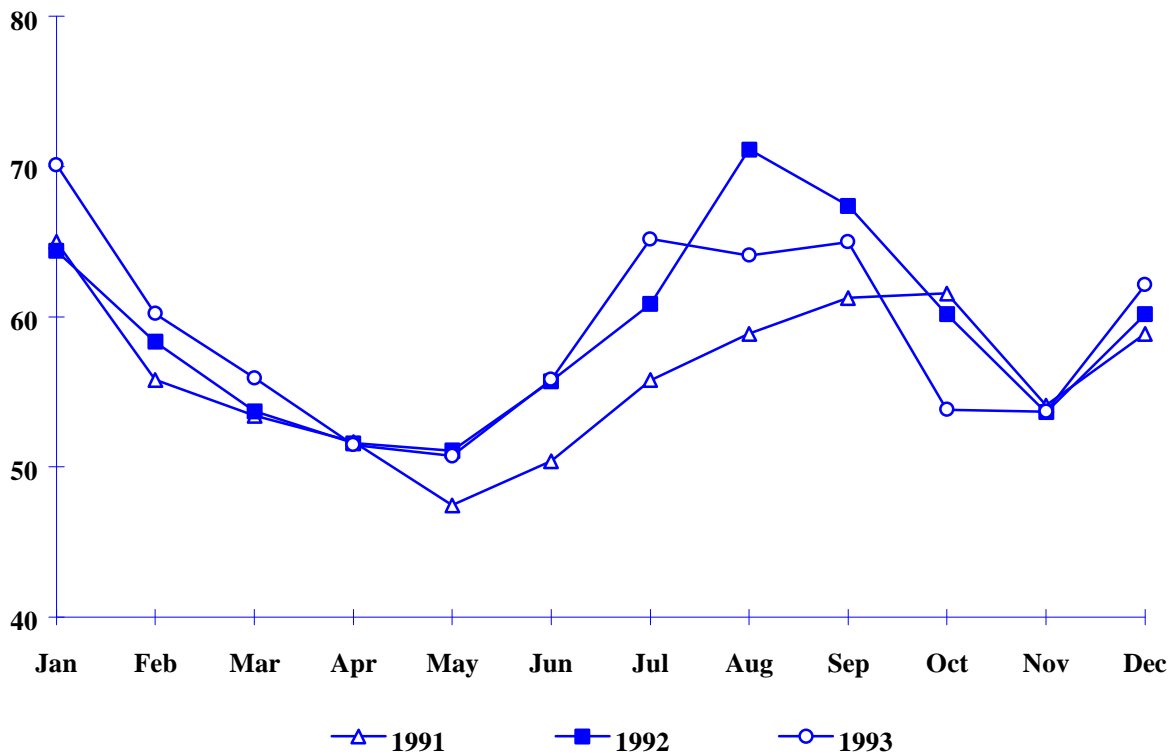
January 1990 through December 1992  
(dollars)



Year 1992	PG&E	SMUD	SCE	LADWP	SDG&E	Statewide
January	70.79	69.44	65.93	42.21	58.60	64.38
February	64.13	59.63	59.64	41.10	51.88	58.32
March	58.61	46.37	56.38	37.05	48.40	53.70
April	56.11	40.74	52.86	42.54	45.30	51.57
May	57.13	48.58	54.57	27.66	44.34	51.07
June	62.28	63.44	57.54	35.63	45.01	55.71
July	64.25	66.06	67.05	38.13	50.11	60.85
August	72.60	78.56	81.25	46.73	54.45	71.12
September	65.19	71.37	77.91	48.90	57.38	67.39
October	57.97	54.62	70.21	46.63	50.24	60.17
November	56.87	46.18	57.72	40.14	45.73	53.64
December	66.56	58.87	62.89	40.25	49.39	60.15
Monthly Average	62.73	58.66	63.67	40.59	50.07	59.01

# STATEWIDE AVERAGE RESIDENTIAL ELECTRICITY BILL

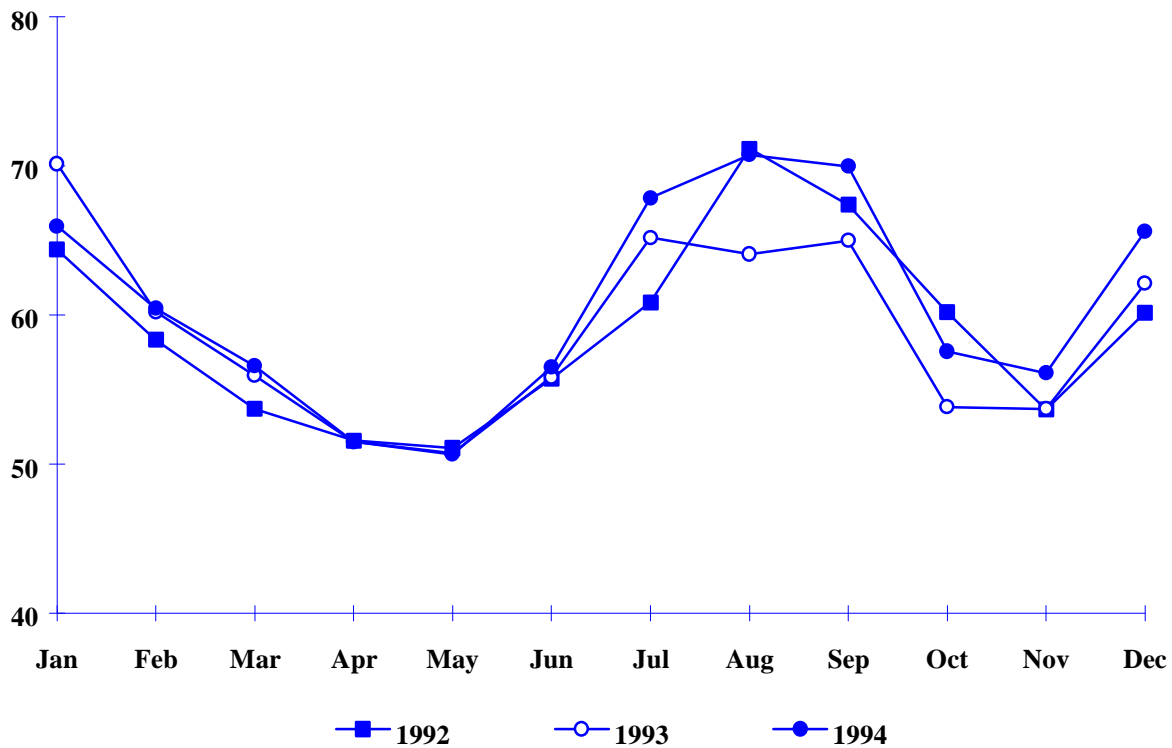
January 1991 through December 1993  
(dollars)



Year 1993	PG&E	SMUD	SCE	LADWP	SDG&E	Statewide
January	76.17	74.32	73.56	45.22	62.17	70.11
February	67.23	57.46	60.35	45.44	51.93	60.20
March	63.75	48.74	56.37	38.29	48.50	55.92
April	58.36	41.25	51.96	38.12	43.83	51.47
May	56.91	44.50	52.11	35.80	42.72	50.74
June	61.63	52.70	58.19	40.00	45.47	55.82
July	72.78	78.45	67.54	40.88	50.98	65.17
August	71.31	71.28	65.72	46.62	48.31	64.07
September	68.79	69.23	70.56	43.88	52.99	64.97
October	51.76	52.98	60.90	44.21	48.54	53.82
November	59.90	46.32	54.16	40.34	47.16	53.69
December	71.13	61.80	61.41	41.66	54.52	62.12
Monthly Average	64.81	58.26	61.07	41.71	49.76	58.98

# STATEWIDE AVERAGE RESIDENTIAL ELECTRICITY BILL

January 1992 through December 1994  
(dollars)



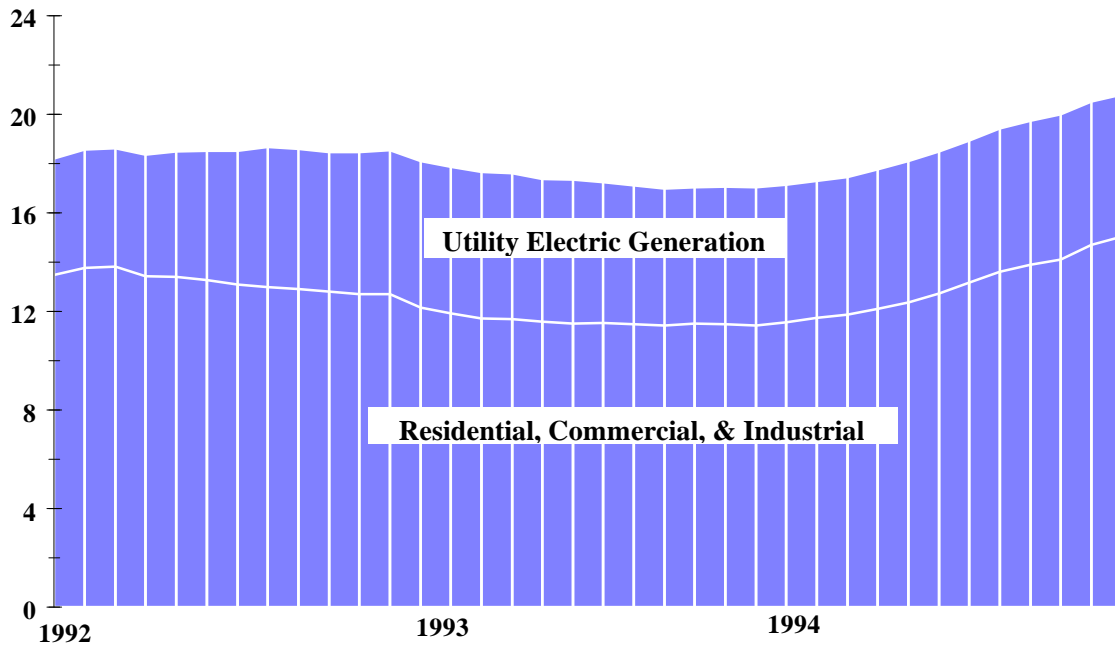
Year 1994	PG&E	SMUD	SCE	LADWP	SDG&E	Statewide
January	73.49	72.26	66.93	45.57	54.87	65.94
February	67.99	58.32	59.75	45.70	52.64	60.44
March	62.09	49.66	58.29	40.57	50.89	56.58
April	56.25	41.26	53.55	38.30	45.64	51.50
May	55.54	43.38	52.95	35.02	44.88	50.66
June	61.73	57.18	59.65	38.12	46.13	56.49
July	71.37	74.74	74.81	42.88	54.77	67.83
August	73.86	73.44	78.57	48.96	54.27	70.72
September	68.24	68.17	80.73	49.14	61.97	69.98
October	58.81	55.06	62.29	45.97	49.89	57.55
November	61.78	51.02	57.76	39.31	50.07	56.11
December	74.48	66.55	65.03	43.73	58.81	65.59
Monthly Average	65.47	59.27	64.20	42.77	52.07	60.79

# NATURAL GAS

## STATEWIDE NATURAL GAS CONSUMPTION

### 12-Month Ended through December 1994

(billion therms)



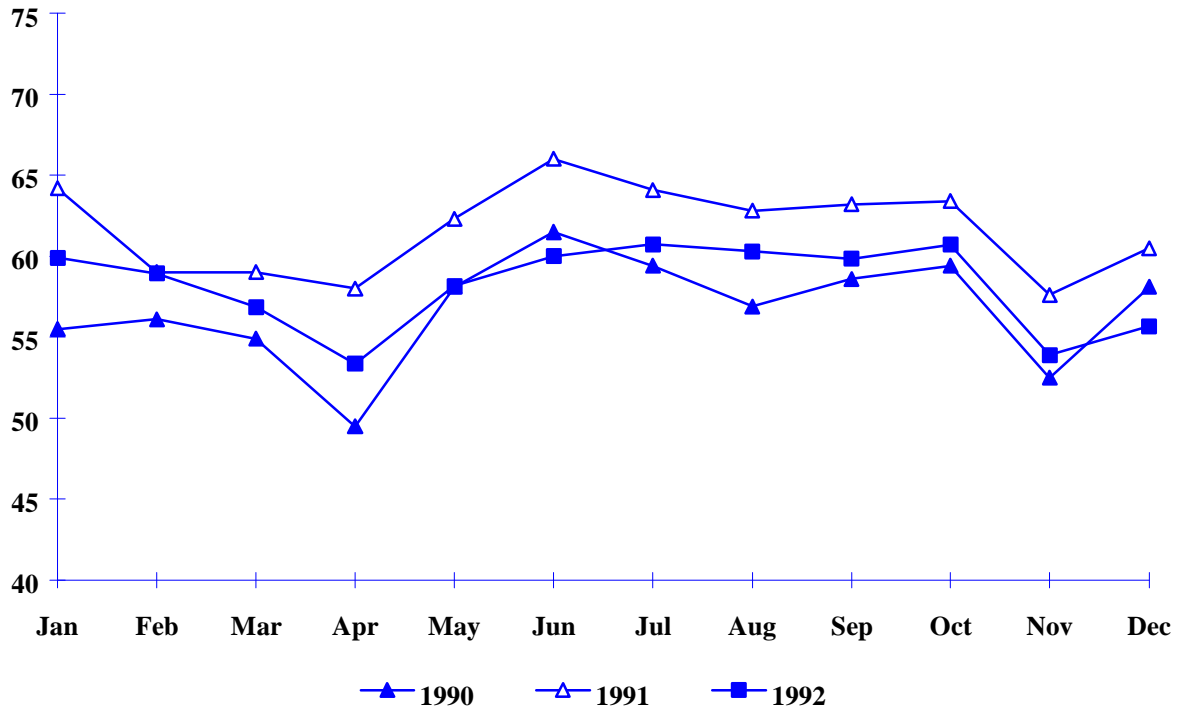
	1992	1993	1994
January	18.212	18.106	17.131
February	18.562	17.873	17.289
March	18.618	17.673	17.452
April	18.373	17.619	17.773
May	18.497	17.376	18.094
June	18.532	17.341	18.479
July	18.515	17.260	18.939
August	18.673	17.119	19.419
September	18.595	16.998	19.726
October	18.469	17.036	19.987
November	18.460	17.058	20.534
December	18.557	17.036	20.820

SOURCES: Monthly natural gas statistics are provided by California's major gas utilities: Pacific Gas and Electric Company, Southern California Gas, San Diego Gas and Electric, and Long Beach Gas Department.

NOTE: 12-month ended data is derived by adding the gas consumption for the indicated month and previous 11 months. *Energy Watch* uses 12-month ended data to minimize short-term seasonal fluctuations that can disguise longer-term trends.

# STATEWIDE AVERAGE RESIDENTIAL NATURAL GAS RATES

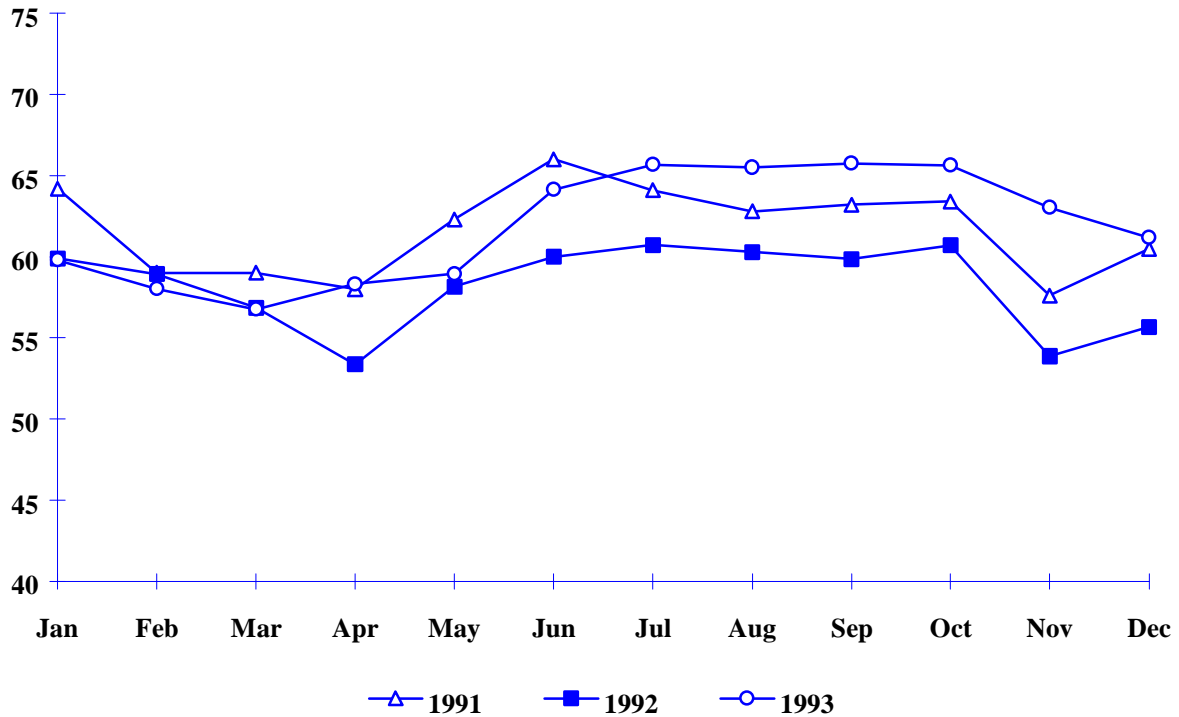
January 1990 through December 1992  
(cents per therm)



Year 1992	PG&E	SoCal Gas	SDG&E	Long Beach	Statewide
January	60.6	59.5	58.7	55.0	59.9
February	60.9	56.9	58.8	55.0	58.9
March	54.8	58.7	56.5	56.0	56.9
April	52.1	54.0	54.8	61.0	53.4
May	54.0	61.1	55.0	66.0	58.2
June	57.0	62.1	60.5	67.0	60.0
July	57.8	62.9	59.9	68.0	60.7
August	57.0	62.8	59.4	69.0	60.3
September	56.5	62.1	57.7	68.0	59.9
October	59.4	61.7	58.6	62.0	60.7
November	50.8	55.3	57.9	55.0	53.9
December	52.2	57.4	60.0	55.0	55.7
Monthly Average	56.5	58.8	58.1	59.2	57.8

# STATEWIDE AVERAGE RESIDENTIAL NATURAL GAS RATES

January 1991 through December 1993  
(cents per therm)

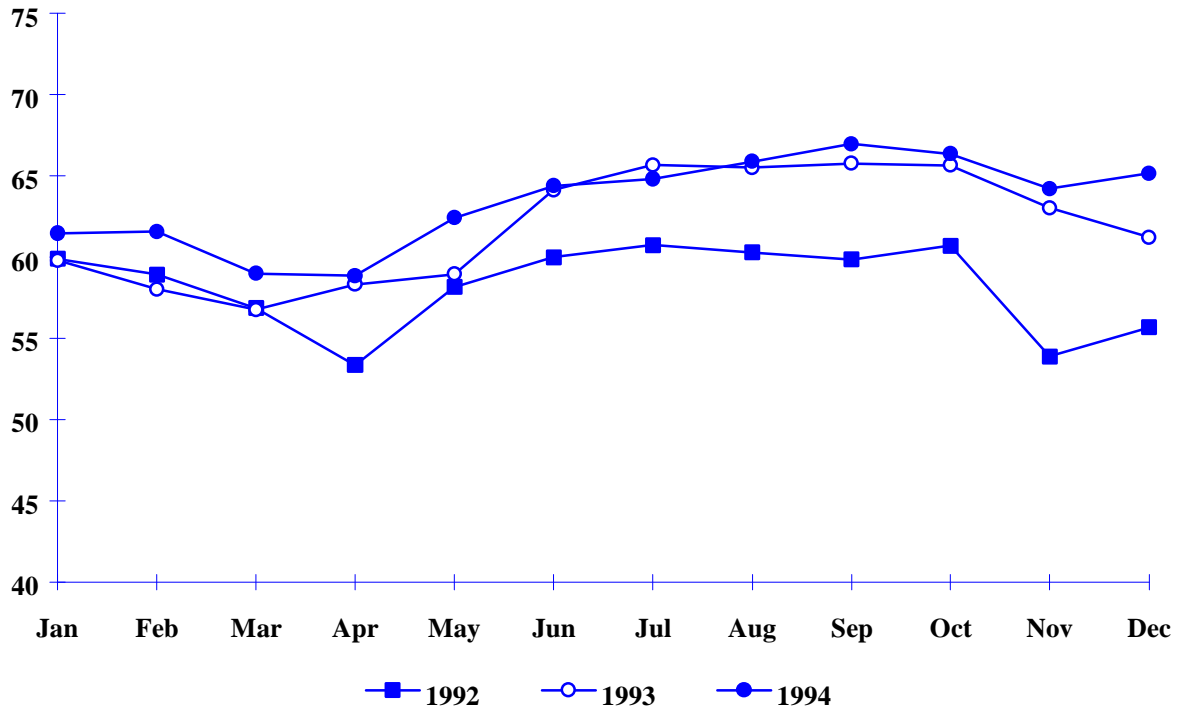


Year 1993	PG&E	SoCal Gas	SDG&E	Long Beach	Statewide
January	55.6	63.0	64.3	55.0	59.8
February	54.9	60.4	62.9	55.0	58.0
March	52.3	60.6	61.8	56.0	56.8
April	50.9	63.1	59.3	60.0	58.3
May	51.8	65.5	59.5	65.0	58.9
June	55.1	71.4	63.6	68.0	64.1
July	56.3	73.1	64.2	70.0	65.7
August	56.1	73.2	64.4	70.0	65.5
September	57.2	73.0	62.8	70.0	65.8
October	57.4	72.6	63.9	66.0	65.6
November	58.0	67.7	62.2	58.0	63.0
December	56.6	65.7	63.2	58.0	61.2
Monthly Average	55.0	65.5	62.8	60.5	60.7



# STATEWIDE AVERAGE RESIDENTIAL NATURAL GAS RATES

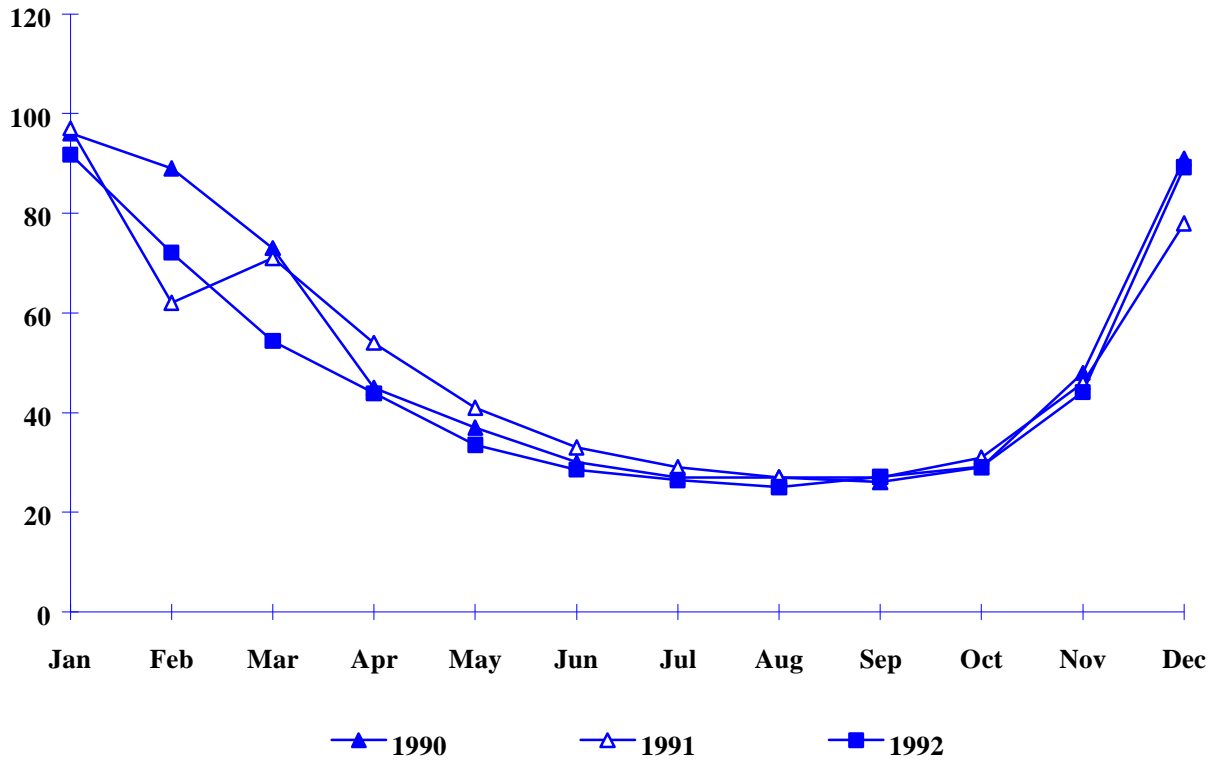
January 1992 through December 1994  
(cents per therm)



Year 1994	PG&E	SoCal Gas	SDG&E	Long Beach	Statewide
January	57.9	64.9	66.0	58.0	61.5
February	57.4	65.0	67.0	58.0	61.5
March	54.1	63.3	64.9	59.0	59.0
April	52.7	63.8	63.2	60.0	58.8
May	53.5	69.5	64.3	68.0	62.4
June	55.5	71.5	68.1	71.0	64.4
July	56.5	71.9	63.6	75.0	64.8
August	59.2	72.1	63.3	77.0	65.9
September	60.8	72.2	65.0	76.0	67.0
October	61.1	70.1	65.9	70.0	66.3
November	62.0	65.6	65.0	63.0	64.2
December	64.2	65.8	67.2	63.0	65.1
Monthly Average	58.2	66.8	65.6	64.3	62.9

# STATEWIDE AVERAGE RESIDENTIAL NATURAL GAS CONSUMPTION

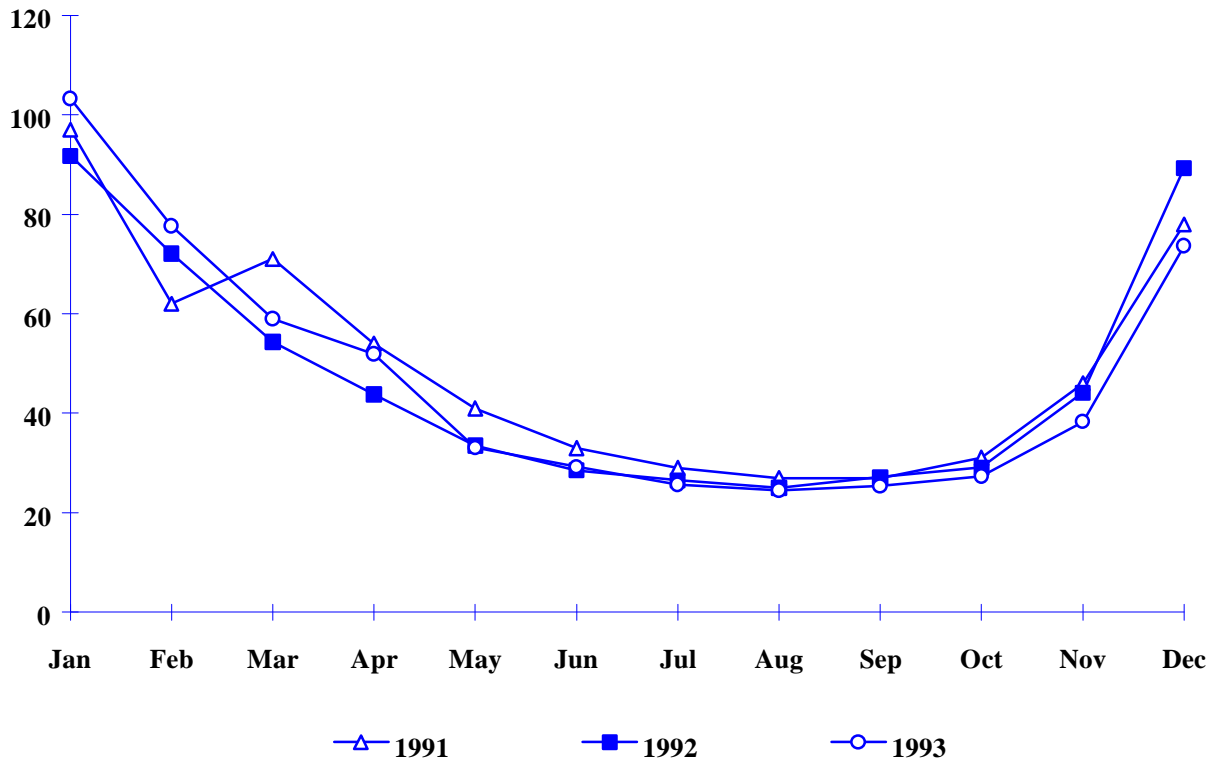
January 1990 through December 1992  
(therms)



Year 1992	PG&E	SoCal Gas	SDG&E	Long Beach	Statewide
January	103	87	74	62	92
February	90	61	61	52	72
March	59	52	50	41	54
April	47	43	40	28	44
May	32	35	29	28	34
June	29	29	27	25	29
July	26	27	25	23	27
August	25	26	21	22	25
September	26	29	23	25	27
October	26	32	23	30	29
November	39	49	31	55	44
December	82	99	63	81	89
Monthly Average	49	47	39	39	47

# STATEWIDE AVERAGE RESIDENTIAL NATURAL GAS CONSUMPTION

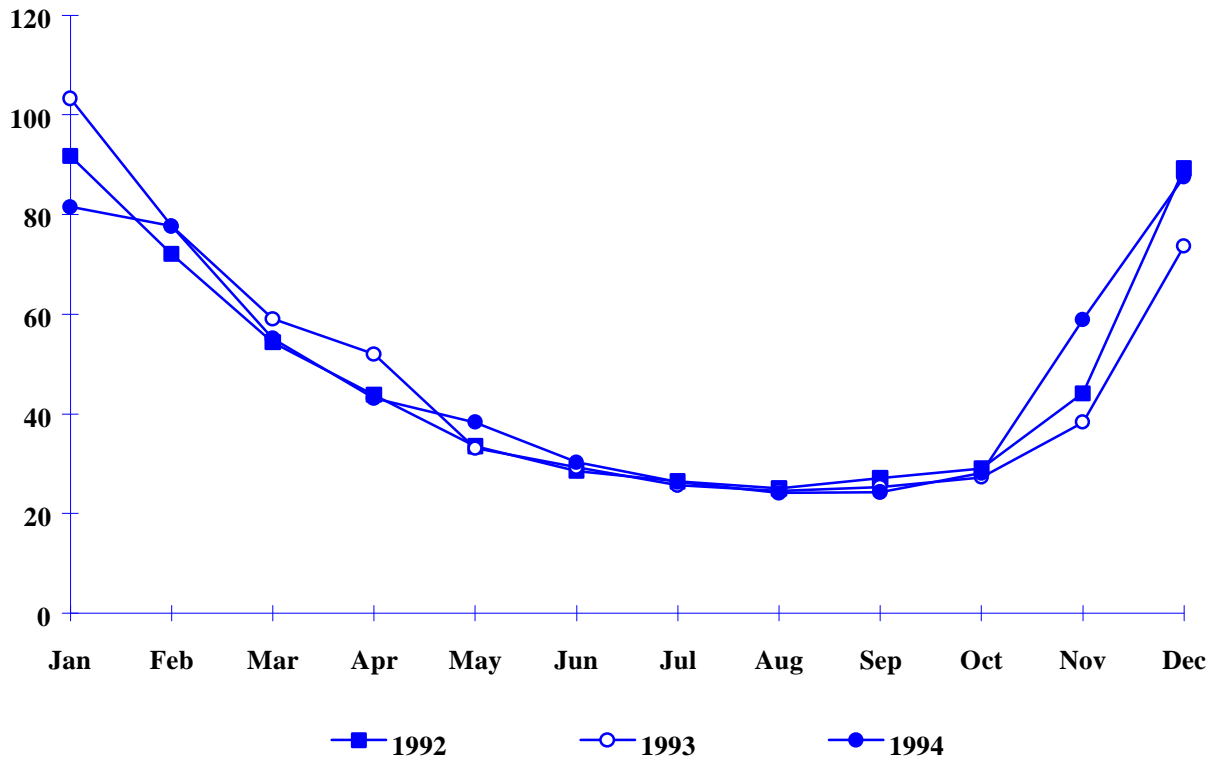
January 1991 through December 1993  
(therms)



Year 1993	PG&E	SoCal Gas	SDG&E	Long Beach	Statewide
January	115	98	85	66	103
February	90	71	63	57	78
March	70	52	52	39	59
April	49	72	39	31	52
May	38	30	28	29	33
June	31	28	28	26	29
July	26	25	26	25	26
August	25	24	23	25	24
September	26	25	25	26	25
October	29	26	25	29	27
November	41	36	34	52	38
December	87	66	59	72	74
Monthly Average	52	45	41	40	47

# STATEWIDE AVERAGE RESIDENTIAL NATURAL GAS CONSUMPTION

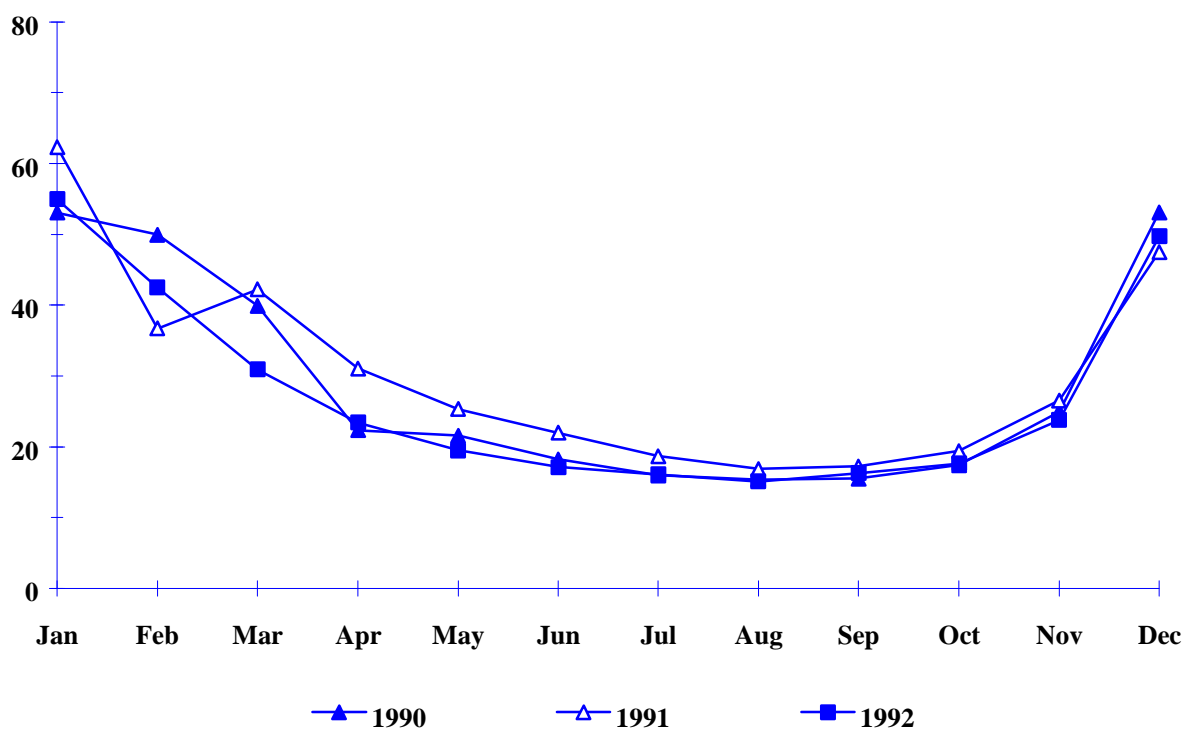
January 1992 through December 1994  
(therms)



Year 1994	PG&E	SoCal Gas	SDG&E	Long Beach	Statewide
January	103	69	65	59	82
February	92	69	66	57	78
March	67	46	56	41	55
April	48	39	43	37	43
May	41	37	36	33	38
June	33	28	31	25	30
July	28	25	27	19	26
August	27	22	23	22	24
September	26	23	23	23	24
October	28	29	24	33	28
November	55	64	43	69	59
December	100	80	72	77	88
Monthly Average	54	44	43	41	48

# STATEWIDE AVERAGE RESIDENTIAL NATURAL GAS BILL

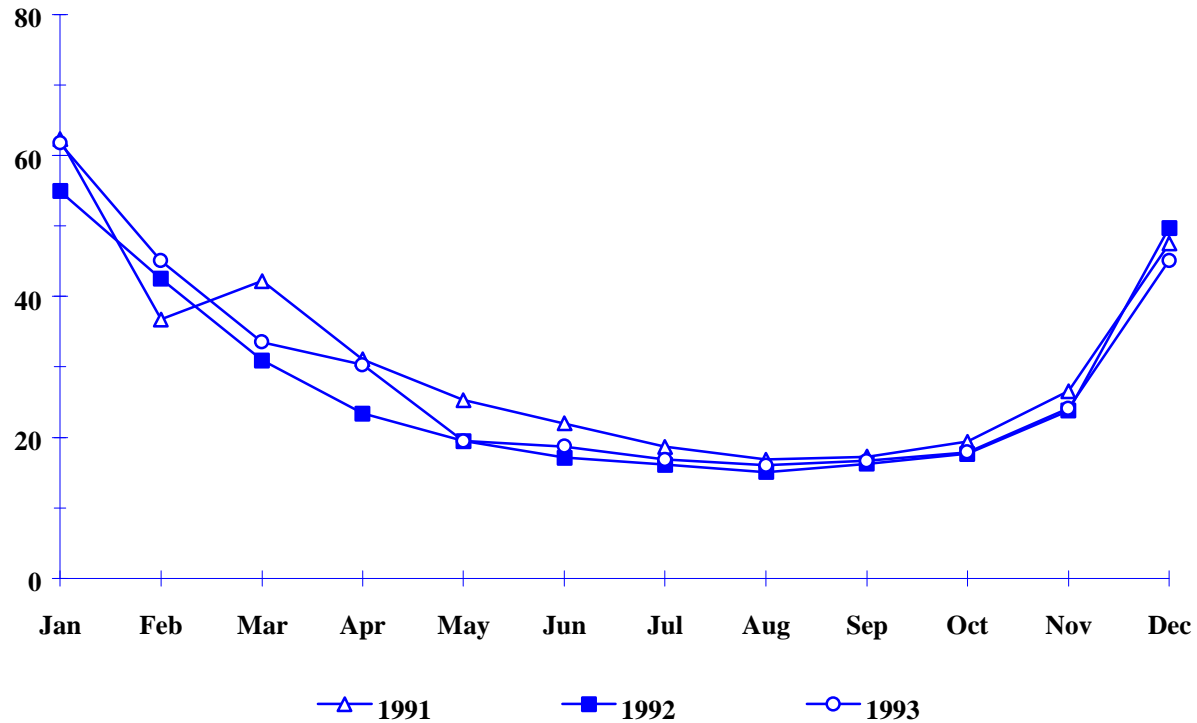
**January 1990 through December 1992**  
(dollars)



Year 1992	PG&E	SoCal Gas	SDG&E	Long Beach	Statewide
January	62.46	51.57	43.43	34.23	54.96
February	54.81	34.53	35.85	28.58	42.48
March	32.33	30.37	28.26	22.82	30.91
April	24.50	23.15	21.91	17.17	23.39
May	17.29	21.54	15.96	18.48	19.49
June	16.53	17.89	16.33	17.08	17.12
July	15.03	16.93	14.97	15.63	16.10
August	14.24	16.04	12.47	15.24	15.09
September	14.70	17.93	13.28	16.87	16.25
October	15.44	20.03	13.47	18.70	17.64
November	19.80	27.34	17.94	30.01	23.77
December	42.79	56.95	37.80	44.73	49.71
Monthly Average	27.49	27.86	22.64	23.17	27.24

# STATEWIDE AVERAGE RESIDENTIAL NATURAL GAS BILL

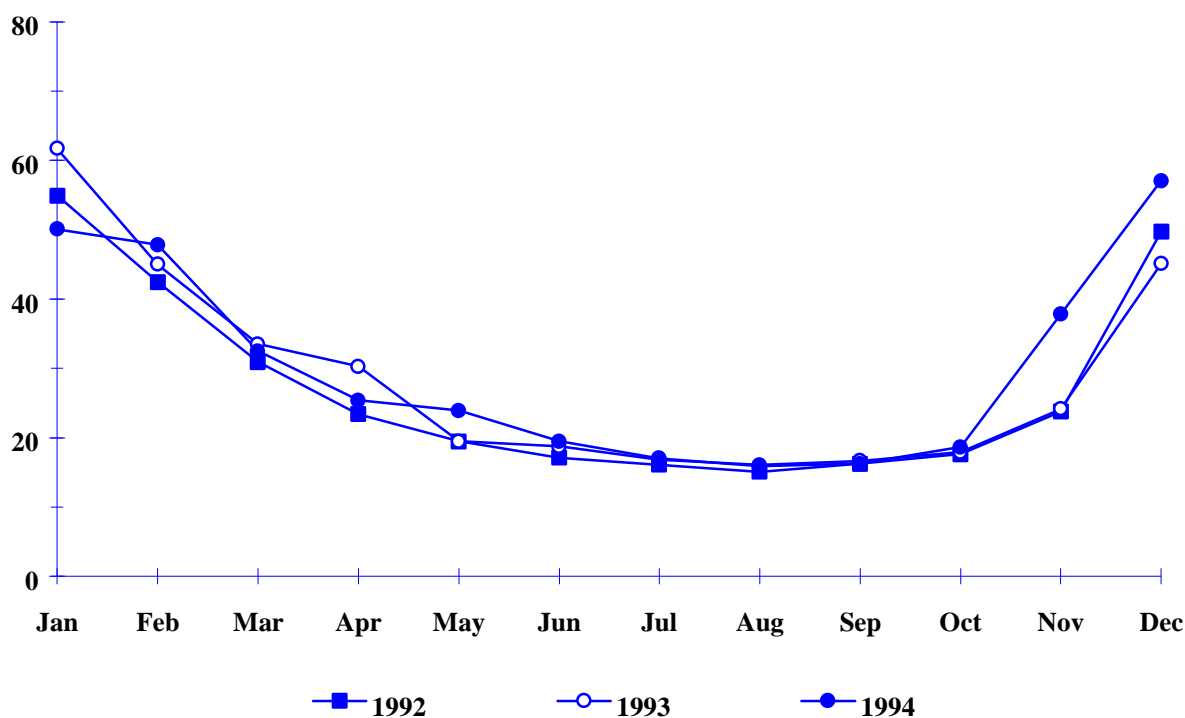
**January 1991 through December 1993**  
(dollars)



Year 1993	PG&E	SoCal Gas	SDG&E	Long Beach	Statewide
January	63.92	61.90	54.66	36.50	61.74
February	49.43	43.11	39.62	31.12	45.03
March	36.63	31.53	32.12	21.99	33.50
April	24.92	45.15	23.14	18.35	30.28
May	19.69	19.72	16.67	19.12	19.49
June	17.07	20.18	17.82	17.78	18.73
July	14.64	18.39	16.68	17.48	16.86
August	14.03	17.68	14.82	17.31	16.05
September	14.86	18.12	15.70	18.12	16.67
October	16.64	19.19	15.97	18.81	17.90
November	23.80	24.54	21.16	30.19	24.13
December	49.20	43.29	37.31	41.79	45.08
Monthly Average	28.77	29.49	25.50	24.00	28.82

# STATEWIDE AVERAGE RESIDENTIAL NATURAL GAS BILL

January 1992 through December 1994  
(dollars)



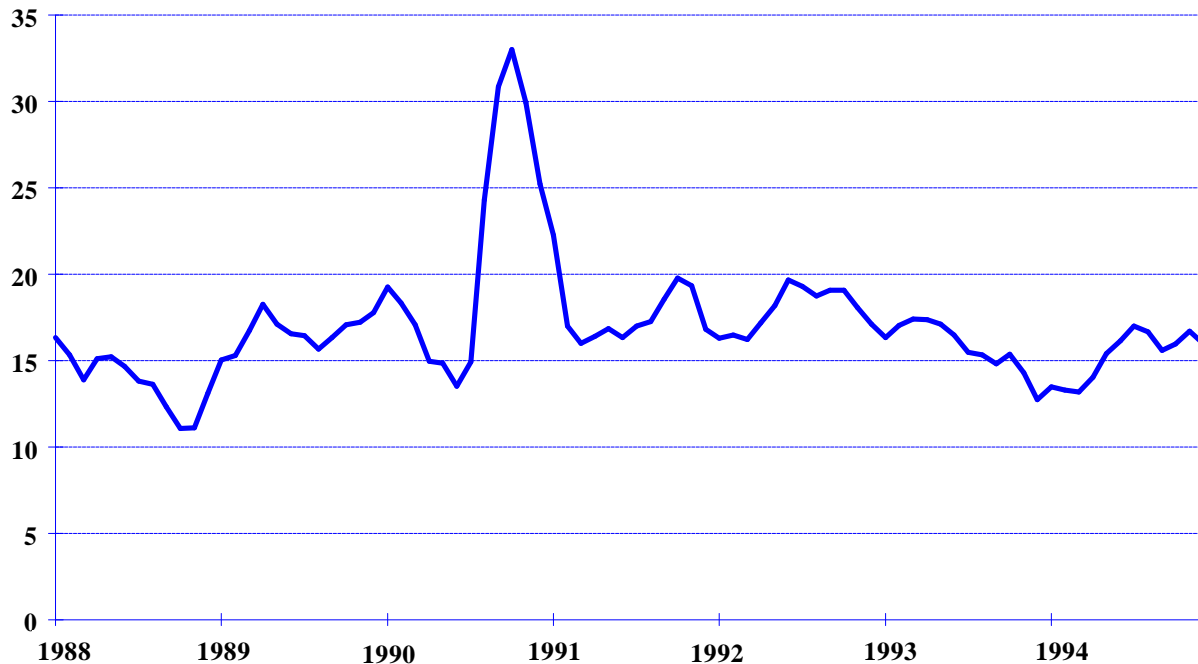
Year 1994	PG&E	SoCal Gas	SDG&E	Long Beach	Statewide
January	59.68	44.47	42.87	34.24	50.10
February	52.85	44.90	44.22	33.02	47.80
March	36.26	29.39	36.35	24.25	32.51
April	25.31	25.15	27.17	22.12	25.38
May	21.95	25.65	23.14	22.34	23.91
June	18.33	20.18	21.12	18.01	19.48
July	15.81	17.98	17.18	14.02	17.03
August	15.98	16.10	14.56	17.30	15.91
September	15.80	16.80	14.95	17.82	16.25
October	17.12	20.30	15.81	23.13	18.66
November	34.10	42.12	27.95	43.63	37.81
December	64.21	52.90	48.36	48.61	57.05
Monthly Average	31.35	29.69	27.91	26.14	30.15

# OIL AND GASOLINE

## WORLD CRUDE OIL PRICES

### Monthly Averages through December 1994

(dollars per barrel)

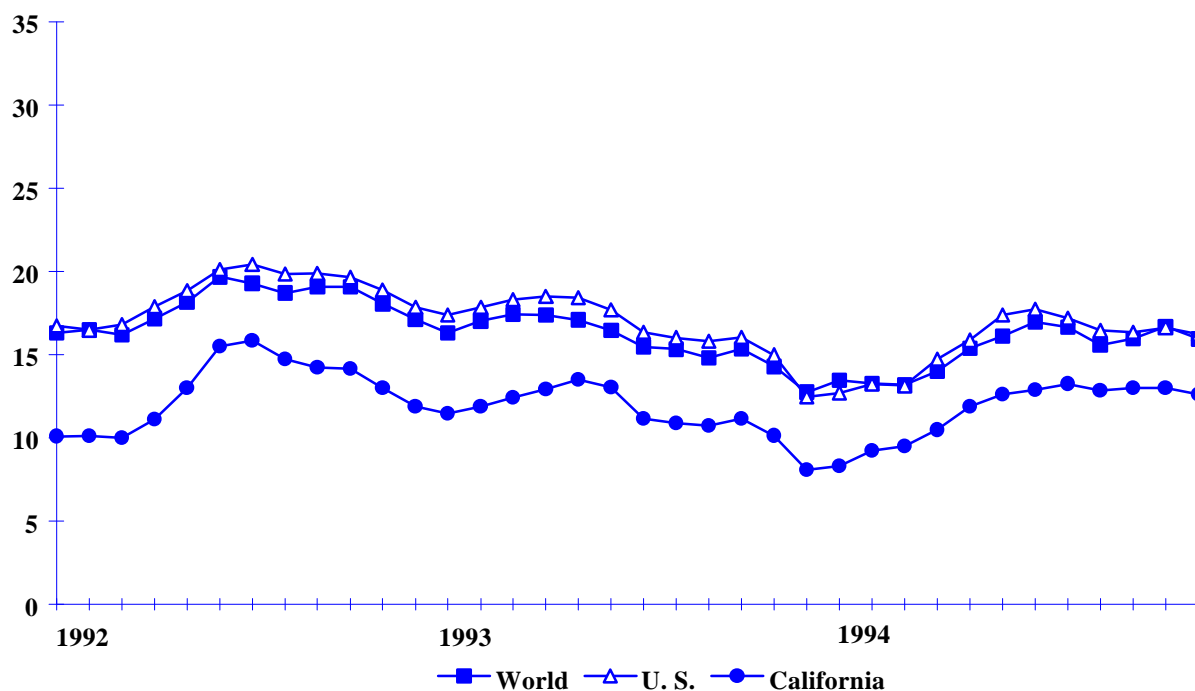


	1988	1989	1990	1991	1992	1993	1994
January	16.35	15.04	19.27	22.27	16.30	16.31	13.48
February	15.34	15.29	18.33	17.01	16.49	17.03	13.28
March	13.90	16.75	17.08	16.01	16.22	17.41	13.19
April	15.10	18.24	14.95	16.42	17.18	17.38	14.02
May	15.23	17.13	14.85	16.85	18.18	17.10	15.40
June	14.67	16.54	13.49	16.33	19.68	16.47	16.13
July	13.81	16.46	14.93	16.99	19.29	15.48	16.97
August	13.62	15.65	24.32	17.24	18.72	15.34	16.67
September	12.32	16.35	30.85	18.54	19.08	14.82	15.60
October	11.05	17.07	33.00	19.77	19.07	15.35	15.98
November	11.12	17.23	29.92	19.33	18.06	14.30	16.71
December	13.10	17.78	25.23	16.82	17.13	12.75	15.96

SOURCE: U. S. Department of Energy, *Weekly Petroleum Status Report*. The price reported is for internationally traded oil, weighted by estimated export volume and is f.o.b. (excludes shipping charges from seller to buyer).



**COMPARISON OF WORLD, UNITED STATES  
AND CALIFORNIA CRUDE OIL PRICES**  
**Monthly Averages: January 1992 through December 1994**  
(dollars per barrel)



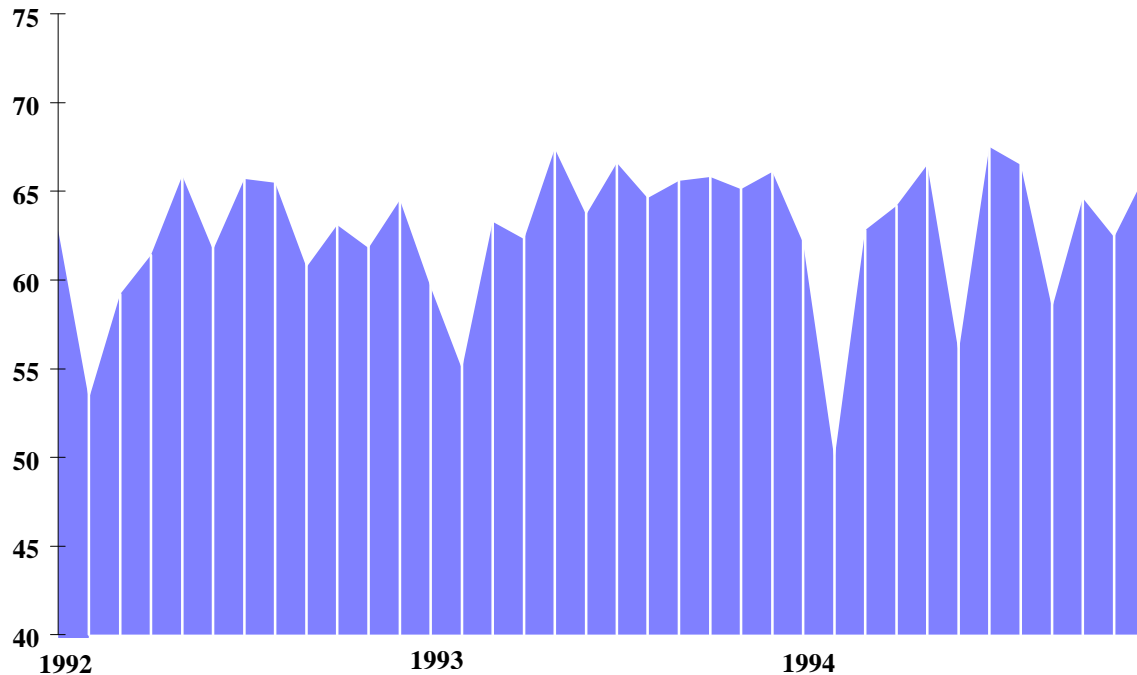
	1992			1993			1994		
	World	U.S.	CA	World	U.S.	CA	World	U.S.	CA
January	16.30	16.75	10.10	16.31	17.40	11.45	13.48	12.72	8.31
February	16.49	16.49	10.13	17.03	17.84	11.88	13.28	13.24	9.25
March	16.22	16.81	10.00	17.41	18.31	12.44	13.19	13.14	9.50
April	17.18	17.88	11.13	17.38	18.49	12.95	14.02	14.74	10.50
May	18.18	18.86	13.00	17.10	18.43	13.50	15.40	15.88	11.88
June	19.68	20.13	15.50	16.47	17.70	13.06	16.13	17.38	12.63
July	19.29	20.42	15.85	15.48	16.36	11.15	16.97	17.74	12.90
August	18.72	19.84	14.75	15.34	16.03	10.88	16.67	17.22	13.25
September	19.08	19.88	14.25	14.82	15.82	10.75	15.60	16.46	12.88
October	19.07	19.64	14.15	15.35	16.04	11.15	15.98	16.35	13.00
November	18.06	18.90	13.00	14.30	14.99	10.13	16.71	16.63	13.00
December	17.13	17.85	11.88	12.75	12.45	8.10	15.96	16.22	12.63

SOURCES: U. S. and World crude oil prices are from Table 10 and Table 12 of the *Weekly Petroleum Status Report*. California heavy (Kern River) 13° crude oil prices are from the *Oil and Gas Journal*.

NOTE: Crude oil prices for California tend to be lower than world and United States prices because they are based on a lower grade of crude oil. Therefore, these prices indicate trends only.

## STATEWIDE OUTPUT OF ALL REFINERY PRODUCTS

**January 1992 through December 1994**  
(million barrels)



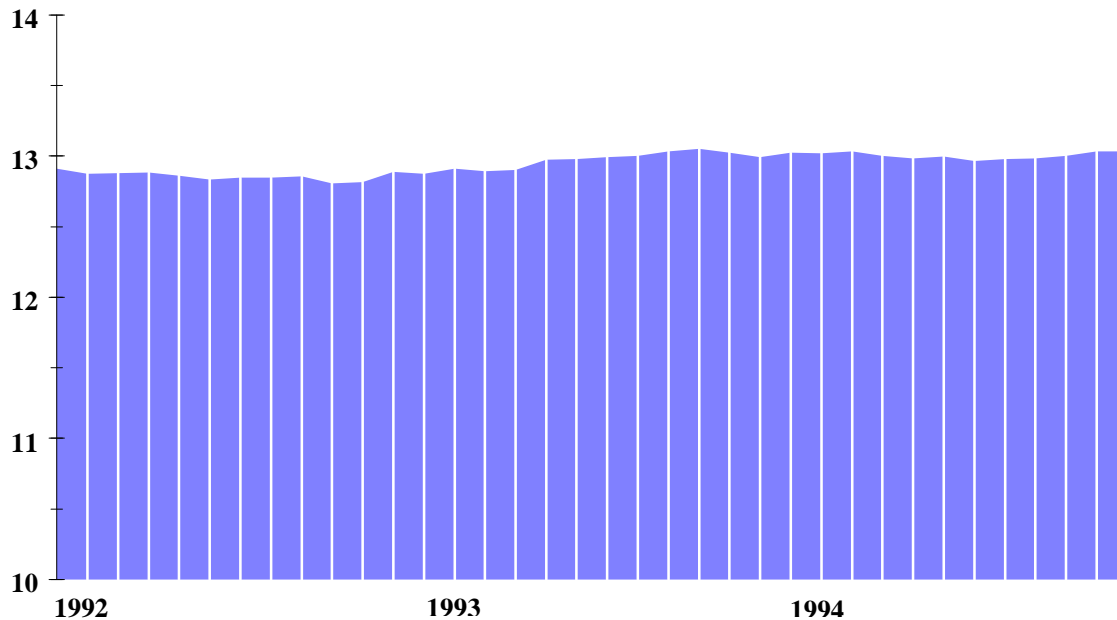
	1992	1993	1994
January	61.8	59.6	62.1
February	53.3	55.0	49.9
March	59.2	63.3	62.8
April	61.4	62.3	64.2
May	65.9	67.4	66.5
June	61.7	63.7	55.9
July	65.7	66.6	67.5
August	65.5	64.6	66.5
September	60.7	65.6	58.4
October	63.1	65.8	64.6
November	61.8	65.1	62.4
December	64.5	66.1	65.9

SOURCE: Monthly refiner production figures are provided to the Fuels Office of the California Energy Commission as a requirement of the California Petroleum Industry Information Reporting Act, California Public Code, Section 25350, et. seq.

## STATEWIDE ON-ROAD GASOLINE CONSUMPTION

### 12-Month Ended through December 1994

(billion gallons)



	1992	1993	1994
January	12.912	12.874	13.025
February	12.872	12.912	13.019
March	12.877	12.891	13.035
April	12.881	12.903	13.003
May	12.861	12.976	12.982
June	12.833	12.978	12.997
July	12.846	12.993	12.963
August	12.848	13.000	12.979
September	12.855	13.032	12.982
October	12.807	13.049	13.001
November	12.815	13.023	13.033
December	12.886	12.991	13.033

SOURCES: Information for the total on-road gasoline consumption is provided by the State Board of Equalization and the State Controller's Office.

NOTE: 12-month ended data is derived by adding the gasoline consumption for the indicated month and previous 11 months. *Energy Watch* uses 12-month ended data to minimize short-term seasonal fluctuations that can disguise longer-term trends.

# TRANSPORTATION

## TRAVEL ON STATE HIGHWAYS\*

(billion vehicle miles)

### JANUARY

				Percent Change	
	1992	1993	1994	92/93	93/94
Weekends	2.73	2.69	2.68	-1.5	-0.4
Weekdays	7.71	7.55	8.07	-2.1	6.9
Monthly Total	10.44	10.24	10.75	-1.9	5.0
Calendar Year to Date	10.44	10.24	10.75	-1.9	5.0
12-Month Ended	140.46	141.88	143.60	1.0	1.2

### FEBRUARY

				Percent Change	
	1992	1993	1994	92/93	93/94
Weekends	2.85	2.99	3.07	4.9	2.7
Weekdays	8.05	8.23	8.55	2.2	3.9
Monthly Total	10.90	11.22	11.62	2.9	3.6
Calendar Year to Date	21.33	21.45	22.37	0.6	4.3
12-Month Ended	140.46	142.12	143.81	1.2	1.2

### MARCH

				Percent Change	
	1992	1993	1994	92/93	93/94
Weekends	3.13	3.28	3.24	4.8	-1.2
Weekdays	8.22	8.59	8.79	4.5	2.3
Monthly Total	11.35	11.87	12.03	4.6	1.3
Calendar Year to Date	32.69	33.32	34.40	1.9	3.2
12-Month Ended	140.64	142.45	143.98	1.3	1.1

### APRIL

				Percent Change	
	1992	1993	1994	92/93	93/94
Weekends	3.39	3.34	3.20	-1.5	-4.2
Weekdays	8.65	8.78	8.66	1.5	-1.4
Monthly Total	12.04	12.12	11.86	0.7	-2.1
Calendar Year to Date	45.16	45.44	46.27	0.6	1.8
12-Month Ended	140.59	142.52	143.98	1.4	1.0

\* Highway travel is about 50 percent of total travel.

Source: Monthly data is provided by the California Department of Transportation (Caltrans). This data is published yearly in Caltrans' *Travel and Related Factors*.

**TRAVEL ON STATE HIGHWAYS\***  
(billion vehicle miles)

**MAY**

				<b>Percent Change</b>	
	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>92/93</b>	<b>93/94</b>
<b>Weekends</b>	3.33	3.38	3.37	1.5	-0.3
<b>Weekdays</b>	8.72	8.79	8.89	0.8	1.1
<b>Monthly Total</b>	12.05	12.17	12.26	1.0	0.7
<b>Calendar Year to Date</b>	57.21	57.45	58.63	0.4	2.1
<b>12-Month Ended</b>	140.82	142.16	143.72	1.0	1.1

**JUNE**

				<b>Percent Change</b>	
	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>92/93</b>	<b>93/94</b>
<b>Weekends</b>	3.50	3.46	3.51	-1.1	1.4
<b>Weekdays</b>	9.00	9.06	9.34	0.7	3.1
<b>Monthly Total</b>	12.50	12.52	12.85	0.2	2.6
<b>Calendar Year to Date</b>	69.71	69.96	71.46	0.4	2.1
<b>12-Month Ended</b>	141.10	142.26	144.05	0.8	1.3

**JULY**

				<b>Percent Change</b>	
	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>92/93</b>	<b>93/94</b>
<b>Weekends</b>	3.38	3.46	3.47	2.4	0.3
<b>Weekdays</b>	9.25	9.26	9.38	0.1	1.3
<b>Monthly Total</b>	12.63	12.72	12.85	0.7	1.0
<b>Calendar Year to Date</b>	82.35	82.68	84.32	0.4	2.0
<b>12-Month Ended</b>	141.33	142.41	144.28	0.8	1.3

**AUGUST**

				<b>Percent Change</b>	
	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>92/93</b>	<b>93/94</b>
<b>Weekends</b>	3.52	3.65	3.67	3.7	0.5
<b>Weekdays</b>	9.37	9.49	9.53	1.3	0.4
<b>Monthly Total</b>	12.89	13.14	13.20	1.9	0.5
<b>Calendar Year to Date</b>	95.24	95.83	97.52	0.6	1.8
<b>12-Month Ended</b>	141.42	142.61	144.50	0.8	1.3

\* Highway travel is about 50 percent of total travel.

Source: Monthly data is provided by Caltrans. This data is published yearly in Caltrans' *Travel and Related Factors*.

**TRAVEL ON STATE HIGHWAYS\***  
(billion vehicle miles)

**SEPTEMBER**

				<b>Percent Change</b>	
	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>92/93</b>	<b>93/94</b>
<b>Weekends</b>	3.29	3.22	3.32	-2.1	3.1
<b>Weekdays</b>	8.78	8.78	8.96	0.0	2.1
<b>Monthly Total</b>	12.07	12.00	12.28	-0.6	2.3
<b>Calendar Year to Date</b>	107.31	107.82	109.80	0.5	1.8
<b>12-Month Ended</b>	141.67	142.61	144.76	0.7	1.5

**OCTOBER**

				<b>Percent Change</b>	
	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>92/93</b>	<b>93/94</b>
<b>Weekends</b>	3.20	3.15	3.30	-1.6	4.8
<b>Weekdays</b>	8.59	8.67	8.77	0.9	1.2
<b>Monthly Total</b>	11.79	11.82	12.07	0.3	2.1
<b>Calendar Year to Date</b>	119.11	119.64	121.87	0.4	1.9
<b>12-Month Ended</b>	141.89	142.66	145.05	0.5	1.7

**NOVEMBER**

				<b>Percent Change</b>	
	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>92/93</b>	<b>93/94</b>
<b>Weekends</b>	3.07	3.12	3.13	1.6	0.3
<b>Weekdays</b>	8.66	8.63	8.77	-0.3	1.6
<b>Monthly Total</b>	11.73	11.75	11.90	0.2	1.3
<b>Calendar Year to Date</b>	130.84	131.39	133.77	0.4	1.8
<b>12-Month Ended</b>	142.09	142.75	145.24	0.5	1.7

**DECEMBER**

				<b>Percent Change</b>	
	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>92/93</b>	<b>93/94</b>
<b>Weekends</b>	2.98	2.92	3.01	-2.0	3.1
<b>Weekdays</b>	8.42	8.69	8.79	3.2	1.2
<b>Monthly Total</b>	11.40	11.61	11.80	1.8	1.6
<b>Calendar Year to Date</b>	142.24	143.00	145.50	0.5	1.7
<b>12-Month Ended</b>	142.24	143.00	145.50	0.5	1.7

\* Highway travel is about 50 percent of total travel.

Source: Monthly data is provided by Caltrans. This data is published yearly in Caltrans' *Travel and Related Factors*.

# TRANSIT PATRONAGE BY COMPANY

(thousands)

	JANUARY			Percent Change	
	1992	1993	1994	92/93	93/94
SAMTRANS (San Mateo County)	1,629	1,629	1,644	0.0	0.9
Santa Clara County Transit District	3,230	3,057	3,153	-5.4	3.1
Santa Clara Light Rail	460	422	455	-8.3	7.8
GGBHTD (Golden Gate)	753	703	721	-6.6	2.6
AC Transit (East Bay Counties)	5,255	4,577	4,770	-12.9	4.2
Regional Transit (Sacramento)	1,204	899	1,205	-25.3	34.0
Regional Transit Metro (Sacramento)	545	479	563	-12.1	17.5
BART	5,980	5,695	5,845	-4.8	2.6
<b>SUBTOTAL (NORTH)</b>	<b>19,056</b>	<b>17,461</b>	<b>18,356</b>	<b>-8.4</b>	<b>5.1</b>
NCTD (North San Diego County)	807	742	844	-8.1	13.7
Santa Monica Transit	1,508	1,322	1,328	-12.3	0.5
Long Beach Transit	1,685	1,699	1,977	0.8	16.4
San Diego Transit	2,775	2,548	2,676	-8.2	5.0
San Diego Trolley	1,315	1,247	1,222	-5.2	-2.0
OCTD (Orange County)	3,928	3,217	3,358	-18.1	4.4
LACMTA (Los Angeles)	34,898	28,689	31,101	-17.8	8.4
<b>SUBTOTAL (SOUTH)</b>	<b>46,916</b>	<b>39,464</b>	<b>42,506</b>	<b>-15.9</b>	<b>7.7</b>
<b>TOTAL RIDERSHIP</b>	<b>65,972</b>	<b>56,925</b>	<b>60,862</b>	<b>-13.7</b>	<b>6.9</b>

	FEBRUARY			Percent Change	
	1992	1993	1994	92/93	93/94
SAMTRANS (San Mateo County)	1,546	1,546	1,531	0.0	-1.0
Santa Clara County Transit District	3,012	2,788	2,959	-7.4	6.1
Santa Clara Light Rail	441	445	473	0.9	6.3
GGBHTD (Golden Gate)	701	694	674	-1.0	-2.9
AC Transit (East Bay Counties)	4,898	4,628	4,472	-5.5	-3.4
Regional Transit (Sacramento)	1,265	1,111	1,275	-12.2	14.8
Regional Transit Metro (Sacramento)	554	492	547	-11.2	11.2
BART	5,726	5,683	5,626	-0.8	-1.0
<b>SUBTOTAL (NORTH)</b>	<b>18,143</b>	<b>17,387</b>	<b>17,557</b>	<b>-4.2</b>	<b>1.0</b>
NCTD (North San Diego County)	809	807	797	-0.2	-1.2
Santa Monica Transit	1,418	1,366	1,373	-3.7	0.5
Long Beach Transit	1,617	1,737	1,952	7.4	12.4
San Diego Transit	2,673	2,634	2,524	-1.5	-4.2
San Diego Trolley	1,392	1,300	1,090	-6.6	-16.2
OCTD (Orange County)	3,709	3,388	3,211	-8.7	-5.2
LACMTA (Los Angeles)	28,996	28,260	30,802	-2.5	9.0
<b>SUBTOTAL (SOUTH)</b>	<b>40,614</b>	<b>39,492</b>	<b>41,749</b>	<b>-2.8</b>	<b>5.7</b>
<b>TOTAL RIDERSHIP</b>	<b>58,757</b>	<b>56,879</b>	<b>59,306</b>	<b>-3.2</b>	<b>4.3</b>

Source: Monthly transit ridership information is provided by the California Department of Transportation (Caltrans) for selected transit systems.

**TRANSIT PATRONAGE BY COMPANY**  
(thousands)

	<b>MARCH</b>			<b>Percent Change</b>	
	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>92/93</b>	<b>93/94</b>
<b>SAMTRANS (San Mateo County)</b>	1,763	1,763	1,768	0.0	0.3
<b>Santa Clara County Transit District</b>	3,357	3,401	3,281	1.3	-3.5
<b>Santa Clara Light Rail</b>	510	535	549	4.9	2.6
<b>GGBHTD (Golden Gate)</b>	806	828	797	2.7	-3.7
<b>AC Transit (East Bay Counties)</b>	5,522	5,491	5,396	-0.6	-1.7
<b>Regional Transit (Sacramento)</b>	1,458	1,319	1,438	-9.5	9.0
<b>Regional Transit Metro (Sacramento)</b>	595	614	626	3.2	2.0
<b>BART</b>	6,336	6,569	6,524	3.7	-0.7
<b>SUBTOTAL (NORTH)</b>	<b>20,347</b>	<b>20,520</b>	<b>20,379</b>	<b>0.9</b>	<b>-0.7</b>
<b>NCTD (North San Diego County)</b>	867	951	916	9.7	-3.7
<b>Santa Monica Transit</b>	1,592	1,677	1,584	5.3	-5.5
<b>Long Beach Transit</b>	1,683	2,001	2,229	18.9	11.4
<b>San Diego Transit</b>	2,865	3,077	2,900	7.4	-5.8
<b>San Diego Trolley</b>	1,457	1,464	1,257	0.5	-14.1
<b>OCTD (Orange County)</b>	4,128	4,081	3,817	-1.1	-6.5
<b>LACMTA (Los Angeles)</b>	36,913	31,290	33,610	-15.2	7.4
<b>SUBTOTAL (SOUTH)</b>	<b>49,505</b>	<b>44,541</b>	<b>46,313</b>	<b>-10.0</b>	<b>4.0</b>
<b>TOTAL RIDERSHIP</b>	<b>69,852</b>	<b>65,061</b>	<b>66,692</b>	<b>-6.9</b>	<b>2.5</b>

	<b>APRIL</b>			<b>Percent Change</b>	
	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>92/93</b>	<b>93/94</b>
<b>SAMTRANS (San Mateo County)</b>	1,664	1,644	1,664	-1.2	1.2
<b>Santa Clara County Transit District</b>	3,349	3,244	3,181	-3.1	-1.9
<b>Santa Clara Light Rail</b>	516	554	514	7.4	-7.2
<b>GGBHTD (Golden Gate)</b>	808	773	715	-4.3	-7.5
<b>AC Transit (East Bay Counties)</b>	5,304	5,149	4,799	-2.9	-6.8
<b>Regional Transit (Sacramento)</b>	1,397	1,330	1,400	-4.8	5.3
<b>Regional Transit Metro (Sacramento)</b>	584	568	594	-2.7	4.6
<b>BART</b>	6,267	6,350	6,097	1.3	-4.0
<b>SUBTOTAL (NORTH)</b>	<b>19,889</b>	<b>19,612</b>	<b>18,964</b>	<b>-1.4</b>	<b>-3.3</b>
<b>NCTD (North San Diego County)</b>	872	897	877	2.9	-2.2
<b>Santa Monica Transit</b>	1,607	1,548	1,469	-3.7	-5.1
<b>Long Beach Transit</b>	1,807	1,953	1,883	8.1	-3.6
<b>San Diego Transit</b>	2,894	2,862	2,700	-1.1	-5.7
<b>San Diego Trolley</b>	1,450	1,389	1,181	-4.2	-15.0
<b>OCTD (Orange County)</b>	4,252	3,847	3,583	-9.5	-6.9
<b>LACMTA (Los Angeles)</b>	36,945	29,828	33,180	-19.3	11.2
<b>SUBTOTAL (SOUTH)</b>	<b>49,827</b>	<b>42,324</b>	<b>44,873</b>	<b>-15.1</b>	<b>6.0</b>
<b>TOTAL RIDERSHIP</b>	<b>69,716</b>	<b>61,936</b>	<b>63,837</b>	<b>-11.2</b>	<b>3.1</b>

Source: Monthly transit ridership information is provided by Caltrans for selected transit systems.



**TRANSIT PATRONAGE BY COMPANY**  
(thousands)

	<b>MAY</b>			<b>Percent Change</b>	
	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>92/93</b>	<b>93/94</b>
<b>SAMTRANS (San Mateo County)</b>	1,659	1,649	1,701	-0.6	3.2
<b>Santa Clara County Transit District</b>	3,312	3,184	3,334	-3.9	4.7
<b>Santa Clara Light Rail</b>	475	486	472	2.3	-2.9
<b>GGBHTD (Golden Gate)</b>	759	756	734	-0.4	-2.9
<b>AC Transit (East Bay Counties)</b>	5,256	4,997	4,973	-4.9	-0.5
<b>Regional Transit (Sacramento)</b>	1,280	1,268	1,256	-0.9	-0.9
<b>Regional Transit Metro (Sacramento)</b>	557	544	565	-2.3	3.9
<b>BART</b>	5,886	6,080	6,050	3.3	-0.5
<b>SUBTOTAL (NORTH)</b>	<b>19,184</b>	<b>18,964</b>	<b>19,085</b>	<b>-1.1</b>	<b>0.6</b>
<b>NCTD (North San Diego County)</b>	892	937	897	5.0	-4.3
<b>Santa Monica Transit</b>	1,476	1,506	1,481	2.0	-1.7
<b>Long Beach Transit</b>	1,682	1,819	1,887	8.1	3.7
<b>San Diego Transit</b>	2,894	2,839	2,800	-1.9	-1.4
<b>San Diego Trolley</b>	1,404	1,320	1,185	-6.0	-10.2
<b>OCTD (Orange County)</b>	4,074	3,752	3,531	-7.9	-5.9
<b>LACMTA (Los Angeles)</b>	33,256	31,222	34,649	-6.1	11.0
<b>SUBTOTAL (SOUTH)</b>	<b>45,678</b>	<b>43,395</b>	<b>46,430</b>	<b>-5.0</b>	<b>7.0</b>
<b>TOTAL RIDERSHIP</b>	<b>64,862</b>	<b>62,359</b>	<b>65,515</b>	<b>-3.9</b>	<b>5.1</b>

	<b>JUNE</b>			<b>Percent Change</b>	
	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>92/93</b>	<b>93/94</b>
<b>SAMTRANS (San Mateo County)</b>	1,574	1,561	1,590	-0.8	1.9
<b>Santa Clara County Transit District</b>	3,304	3,244	3,238	-1.8	-0.2
<b>Santa Clara Light Rail</b>	565	552	505	-2.3	-8.5
<b>GGBHTD (Golden Gate)</b>	772	763	727	-1.2	-4.7
<b>AC Transit (East Bay Counties)</b>	5,010	4,872	4,797	-2.8	-1.5
<b>Regional Transit (Sacramento)</b>	1,149	1,108	1,120	-3.6	1.1
<b>Regional Transit Metro (Sacramento)</b>	557	538	564	-3.4	4.8
<b>BART</b>	6,234	6,237	6,129	0.0	-1.7
<b>SUBTOTAL (NORTH)</b>	<b>19,165</b>	<b>18,875</b>	<b>18,670</b>	<b>-1.5</b>	<b>-1.1</b>
<b>NCTD (North San Diego County)</b>	857	888	885	3.6	-0.3
<b>Santa Monica Transit</b>	1,564	1,514	1,449	-3.2	-4.3
<b>Long Beach Transit</b>	1,671	1,830	2,032	9.5	11.0
<b>San Diego Transit</b>	2,885	2,810	2,700	-2.6	-3.9
<b>San Diego Trolley</b>	1,367	1,274	1,240	-6.8	-2.7
<b>OCTD (Orange County)</b>	4,090	3,745	3,654	-8.4	-2.4
<b>LACMTA (Los Angeles)</b>	33,657	29,837	32,889	-11.3	10.2
<b>SUBTOTAL (SOUTH)</b>	<b>46,091</b>	<b>41,898</b>	<b>44,849</b>	<b>-9.1</b>	<b>7.0</b>
<b>TOTAL RIDERSHIP</b>	<b>65,256</b>	<b>60,773</b>	<b>63,519</b>	<b>-6.9</b>	<b>4.5</b>

Source: Monthly transit ridership information is provided by Caltrans for selected transit systems.

# **TRANSIT PATRONAGE BY COMPANY** (thousands)

	<b>JULY</b>			<b>Percent Change</b>	
	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>92/93</b>	<b>93/94</b>
<b>SAMTRANS (San Mateo County)</b>	1,494	1,443	1,449	-3.4	0.4
<b>Santa Clara County Transit District</b>	3,415	3,258	3,049	-4.6	-6.4
<b>Santa Clara Light Rail</b>	578	546	461	-5.5	-15.6
<b>GGBHTD (Golden Gate)</b>	770	746	693	-3.1	-7.1
<b>AC Transit (East Bay Counties)</b>	4,685	4,428	4,286	-5.5	-3.2
<b>Regional Transit (Sacramento)</b>	1,179	1,159	1,149	-1.7	-0.9
<b>Regional Transit Metro (Sacramento)</b>	560	555	577	-0.9	4.0
<b>BART</b>	6,337	6,233	5,790	-1.6	-7.1
<b>SUBTOTAL (NORTH)</b>	19,018	18,368	17,454	-3.4	-5.0
<b>NCTD (North San Diego County)</b>	907	918	902	1.2	-1.7
<b>Santa Monica Transit</b>	1,540	1,490	1,422	-3.2	-4.6
<b>Long Beach Transit</b>	1,846	2,221	1,919	20.3	-13.6
<b>San Diego Transit</b>	2,976	2,823	2,700	-5.1	-4.4
<b>San Diego Trolley</b>	1,482	1,433	1,348	-3.3	-5.9
<b>OCTD (Orange County)</b>	4,079	3,760	3,500	-7.8	-6.9
<b>LACMTA (Los Angeles)</b>	35,252	29,805	25,674	-15.5	-13.9
<b>SUBTOTAL (SOUTH)</b>	48,082	42,450	37,465	-11.7	-11.7
<b>TOTAL RIDERSHIP</b>	67,100	60,818	54,919	-9.4	-9.7

	<b>AUGUST</b>			<b>Percent Change</b>	
	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>92/93</b>	<b>93/94</b>
<b>SAMTRANS (San Mateo County)</b>	1,436	1,444	1,472	0.6	1.9
<b>Santa Clara County Transit District</b>	3,182	3,115	3,105	-2.1	-0.3
<b>Santa Clara Light Rail</b>	542	513	498	-5.4	-2.9
<b>GGBHTD (Golden Gate)</b>	733	757	734	3.3	-3.0
<b>AC Transit (East Bay Counties)</b>	4,300	4,176	4,417	-2.9	5.8
<b>Regional Transit (Sacramento)</b>	1,063	1,202	1,236	13.1	2.8
<b>Regional Transit Metro (Sacramento)</b>	522	547	620	4.8	13.3
<b>BART</b>	6,189	6,288	6,323	1.6	0.6
<b>SUBTOTAL (NORTH)</b>	17,967	18,042	18,405	0.4	2.0
<b>NCTD (North San Diego County)</b>	858	885	913	3.1	3.2
<b>Santa Monica Transit</b>	1,472	1,379	1,489	-6.3	8.0
<b>Long Beach Transit</b>	1,846	2,032	2,040	10.1	0.4
<b>San Diego Transit</b>	2,845	2,794	2,800	-1.8	0.2
<b>San Diego Trolley</b>	1,542	1,405	1,299	-8.9	-7.5
<b>OCTD (Orange County)</b>	3,940	3,790	3,768	-3.8	-0.6
<b>LACMTA (Los Angeles)</b>	34,483	29,893	26,284	-13.3	-12.1
<b>SUBTOTAL (SOUTH)</b>	46,986	42,178	38,593	-10.2	-8.5
<b>TOTAL RIDERSHIP</b>	64,953	60,220	56,998	-7.3	-5.4

Source: Monthly transit ridership information is provided by Caltrans for selected transit systems.

# **TRANSIT PATRONAGE BY COMPANY** (thousands)

	<b>SEPTEMBER</b>			<b>Percent Change</b>	
	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>92/93</b>	<b>93/94</b>
<b>SAMTRANS (San Mateo County)</b>	1,699	1,729	1,762	1.8	1.9
<b>Santa Clara County Transit District</b>	3,501	3,420	3,374	-2.3	-1.3
<b>Santa Clara Light Rail</b>	552	539	470	-2.4	-12.8
<b>GGBHTD (Golden Gate)</b>	771	767	741	-0.5	-3.4
<b>AC Transit (East Bay Counties)</b>	4,954	4,848	4,874	-2.1	0.5
<b>Regional Transit (Sacramento)</b>	1,319	1,352	1,271	2.5	-6.0
<b>Regional Transit Metro (Sacramento)</b>	567	651	592	14.8	-9.1
<b>BART</b>	6,308	6,144	6,024	-2.6	-2.0
<b>SUBTOTAL (NORTH)</b>	19,671	19,450	19,108	-1.1	-1.8
<b>NCTD (North San Diego County)</b>	859	889	918	3.5	3.3
<b>Santa Monica Transit</b>	1,592	1,535	1,521	-3.6	-0.9
<b>Long Beach Transit</b>	2,005	1,893	2,194	-5.6	15.9
<b>San Diego Transit</b>	2,915	2,816	2,800	-3.4	-0.6
<b>San Diego Trolley</b>	1,444	1,267	1,327	-12.3	4.7
<b>OCTD (Orange County)</b>	3,909	3,657	3,684	-6.4	0.7
<b>LACMTA (Los Angeles)</b>	33,329	28,147	27,938	-15.5	-0.7
<b>SUBTOTAL (SOUTH)</b>	46,053	40,204	40,382	-12.7	0.4
<b>TOTAL RIDERSHIP</b>	65,724	59,654	59,490	-9.2	-0.3

	<b>OCTOBER</b>			<b>Percent Change</b>	
	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>92/93</b>	<b>93/94</b>
<b>SAMTRANS (San Mateo County)</b>	1,790	1,806	1,832	0.9	1.4
<b>Santa Clara County Transit District</b>	3,602	3,557	3,440	-1.2	-3.3
<b>Santa Clara Light Rail</b>	564	549	494	-2.7	-10.0
<b>GGBHTD (Golden Gate)</b>	802	768	754	-4.2	-1.8
<b>AC Transit (East Bay Counties)</b>	5,392	5,157	5,176	-4.4	0.4
<b>Regional Transit (Sacramento)</b>	1,375	1,427	1,352	3.8	-5.3
<b>Regional Transit Metro (Sacramento)</b>	575	680	578	18.3	-15.0
<b>BART</b>	6,558	6,244	6,240	-4.8	-0.1
<b>SUBTOTAL (NORTH)</b>	20,658	20,188	19,866	-2.3	-1.6
<b>NCTD (North San Diego County)</b>	887	919	933	3.6	1.5
<b>Santa Monica Transit</b>	1,627	1,584	1,572	-2.6	-0.8
<b>Long Beach Transit</b>	2,008	2,150	2,113	7.1	-1.7
<b>San Diego Transit</b>	3,031	2,895	2,900	-4.5	0.2
<b>San Diego Trolley</b>	1,489	1,256	1,307	-15.6	4.1
<b>OCTD (Orange County)</b>	4,020	3,693	3,655	-8.1	-1.0
<b>LACMTA (Los Angeles)</b>	34,424	34,594	30,307	0.5	-12.4
<b>SUBTOTAL (SOUTH)</b>	47,486	47,091	42,787	-0.8	-9.1
<b>TOTAL RIDERSHIP</b>	68,144	67,279	62,653	-1.3	-6.9

Source: Monthly transit ridership information is provided by Caltrans for selected transit systems.

# **TRANSIT PATRONAGE BY COMPANY** (thousands)

	NOVEMBER			Percent Change	
	1992	1993	1994	92/93	93/94
SAMTRANS (San Mateo County)	1,600	1,668	1,639	4.3	-1.7
Santa Clara County Transit District	3,093	3,234	3,075	4.6	-4.9
Santa Clara Light Rail	479	496	420	3.5	-15.3
GGBHTD (Golden Gate)	710	730	692	2.8	-5.2
AC Transit (East Bay Counties)	4,755	4,732	4,657	-0.5	-1.6
Regional Transit (Sacramento)	1,277	1,340	1,322	4.9	-1.3
Regional Transit Metro (Sacramento)	505	584	575	15.6	-1.5
BART	5,921	5,961	5,884	0.7	-1.3
<b>SUBTOTAL (NORTH)</b>	<b>18,340</b>	<b>18,745</b>	<b>18,264</b>	<b>2.2</b>	<b>-2.6</b>
NCTD (North San Diego County)	828	881	856	6.4	-2.8
Santa Monica Transit	1,460	1,470	1,442	0.7	-1.9
Long Beach Transit	1,743	2,002	1,915	14.9	-4.3
San Diego Transit	2,735	2,705	2,600	-1.1	-3.9
San Diego Trolley	1,273	1,173	1,182	-7.9	0.8
OCTD (Orange County)	3,629	3,514	3,378	-3.2	-3.9
LACMTA (Los Angeles)	31,707	33,396	29,501	5.3	-11.7
<b>SUBTOTAL (SOUTH)</b>	<b>43,375</b>	<b>45,141</b>	<b>40,874</b>	<b>4.1</b>	<b>-9.5</b>
<b>TOTAL RIDERSHIP</b>	<b>61,715</b>	<b>63,886</b>	<b>59,138</b>	<b>3.5</b>	<b>-7.4</b>

	DECEMBER			Percent Change	
	1992	1993	1994	92/93	93/94
SAMTRANS (San Mateo County)	1,534	1,575	1,584	2.7	0.6
Santa Clara County Transit District	3,143	3,800	2,923	20.9	-23.1
Santa Clara Light Rail	497	496	470	-0.2	-5.2
GGBHTD (Golden Gate)	714	700	668	-2.0	-4.6
AC Transit (East Bay Counties)	4,578	4,499	4,542	-1.7	1.0
Regional Transit (Sacramento)	1,288	1,374	1,274	6.7	-7.3
Regional Transit Metro (Sacramento)	549	594	555	8.2	-6.6
BART	6,013	6,035	5,942	0.4	-1.5
<b>SUBTOTAL (NORTH)</b>	<b>18,316</b>	<b>19,073</b>	<b>17,958</b>	<b>4.1</b>	<b>-5.8</b>
NCTD (North San Diego County)	792	856	856	8.1	0.0
Santa Monica Transit	1,379	1,386	1,385	0.5	-0.1
Long Beach Transit	1,714	2,015	2,008	17.6	-0.3
San Diego Transit	2,640	2,619	2,600	-0.8	-0.7
San Diego Trolley	1,250	1,180	1,245	-5.6	5.5
OCTD (Orange County)	3,457	3,458	3,375	0.0	-2.4
LACMTA (Los Angeles)	28,442	32,769	26,202	15.2	-20.0
<b>SUBTOTAL (SOUTH)</b>	<b>39,674</b>	<b>44,283</b>	<b>37,671</b>	<b>11.6</b>	<b>-14.9</b>
<b>TOTAL RIDERSHIP</b>	<b>57,990</b>	<b>63,356</b>	<b>55,629</b>	<b>9.3</b>	<b>-12.2</b>

Source: Monthly transit ridership information is provided by Caltrans for selected transit systems.

## **TABLE OF MEASUREMENTS**

### **ELECTRICITY**

WATT is the basic unit of electric power.

1 WATT = the rate of energy transfer equivalent to a 1 ampere flowing under the potential of 1 volt with a power factor of 100%.

KILOWATT (kW) = 1,000 watts.

KILOWATT-HOUR (kWh) is the amount of energy consumed or produced in one hour at a rate of 1,000 watts.

MEGAWATT (MW) is a unit of power equal to 1,000 kW.

MEGAWATT-HOUR (MWh) = 1,000 kW consumed for 1 hour.

GIGAWATT (GW) is a unit of power equal to 1,000 MW.

GIGAWATT-HOUR (GWh) = 1,000 MW consumed for 1 hour.

### **NATURAL GAS**

Btu (British thermal unit) is the standard unit for measuring a quantity of thermal energy, either electricity, natural gas, or any other source of energy.

1 Btu is the amount of thermal energy required to raise the temperature of 1 pound of water 1 degree Fahrenheit at sea level. 3412.7 Btu = 1 kWh and 1 Btu = 0.00001 therms.

1 Therm = 100,000 Btu. Natural gas is sold to ultimate customers by energy content (therms).

MCF is one thousand cubic feet. Natural gas is measured by volume (MCF) in producer pipeline transactions.

1 MCF has the energy content of approximately 1,050,000 Btu or 10.5 therms.

### **OIL**

1 Barrel = 42 U.S. gallons or 5.6 cubic feet or 159 liters or approximately 6,000,000 Btu.